Kit of Factor-Referenced Cognitive Tests

1976

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with Diran Dermen
KIT OF FACTOR-REFERENCED
COGNITIVE TESTS
1976

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HIDDEN FIGURES TEST — CF-1 (Rev.)

This is a test of your ability to tell which one of five simple figures can be found in a more complex pattern. At the top of each page in this test are five simple figures lettered A, B, C, D, and E. Beneath each row of figures is a page of patterns. Each pattern has a row of letters beneath it. Indicate your answer by putting an X through the letter of the figure which you find in the pattern.

NOTE: There is only one of these figures in each pattern, and this figure will always be right side up and exactly the same size as one of the five lettered figures.

Now try these 2 examples.

A

B

C

D

E

I

A

B

C

D

E

II

A

B

C

D

E

The figures below show how the figures are included in the problems. Figure A is in the first problem and figure D in the second.

I

B

C

D

E

II

A

B

C

X

E

Your score on this test will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 12 minutes for each of the two parts of this test. Each part has 2 pages. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (12 minutes)

1. A B C D E
2. A B C D E
3. A B C D E
4. A B C D E
5. A B C D E
6. A B C D E
7. A B C D E
8. A B C D E
9. A B C D E

GO ON TO THE NEXT PAGE
Part 2 (12 minutes)

A B C D E

17. 18. 19.

A B C D E A B C D E A B C D E

20. 21. 22.

A B C D E A B C D E A B C D E

23. 24. 25.

A B C D E A B C D E A B C D E

GO ON TO THE NEXT PAGE

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DO NOT GO BACK TO PART 1, AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
HIDDEN PATTERNS TEST -- CP-2 (Rev.)

How quickly can you recognize a figure that is hidden among other lines? This test contains many rows of patterns. In each pattern you are to look for the model shown below:

```
( )
```

The model must always be in this position, not on its side or upside down.

In the next row, when the model appears, it is shown by heavy lines:

```
( )
( )
( )
( )
( )
( )
```

Your task will be to place an X in the space below each pattern in which the model appears and an O below the pattern where the model does not appear. Now, try this row:

```
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
    X    X    X    X    X    X    X    X    X    X
    ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
```

You should have marked an X below patterns 1, 3, 4, 8, and 10, because they contain the model. You should have marked an O below patterns 2, 5, 6, 7, and 9 because they do not contain the model.

Your score on this test will be the number marked correctly minus the number marked incorrectly. Work as quickly as you can without sacrificing accuracy.

You will have 3 minutes for each of the two parts of this test. Each part has two pages. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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Page 2

Part 1 (3 minutes)

Model: \[ \text{Diagram} \]

Go on to the next page
COPYING TEST — CF-3

This is a test of your ability to keep in mind a pattern so that you can quickly find it in a square of dots.

Here is a sample item. It is solved by copying the pattern on the dots.

Problem

Answer

The copied pattern must start with the circled dot, and every corner must come at one of the dots. When you are finished, it must look exactly like the original pattern. If you think it will help you, try blackening the correct dots first, like this:

Practice on the following items:

Your score will be the number of patterns correctly copied. Work as rapidly as you can without sacrificing accuracy.

You will have 3 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 2 (3 minutes)

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

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GESTALT COMPLETION TEST -- CS-1

This is a test of your ability to see a whole picture even though it is not completely drawn. You are to use your imagination to fill in the missing parts.

Look at each incomplete picture and try to see what it is. On the line under each picture, write a word or two to describe it.

Try the sample pictures below:

1. ___________________  2. ___________________

Picture 1 is a flag and picture 2 is a hammer head.

Your score on this test will be the number of pictures identified correctly. Even if you are not sure of the correct identification, it will be to your advantage to guess. Work as rapidly as you can without sacrificing accuracy.

You will have 2 minutes for each of the two parts of this test. Each part has two pages. When you have finished Part 1 (pages 2 and 3), STOP. Please do not go on to Part 2 until you are asked to do so.

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Part 2 (2 minutes)

11. 

12. 

13. 

14. 

15. 

16. 

GO ON TO THE NEXT PAGE
Part 2 (continued)

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
CONCEALED WORDS TEST -- CS-2

This is a test of your ability to read a word when parts of the word have been erased. Look at the words printed below. The word north has been completely printed the first time; the second time parts of the letters have been erased.

north

Now look at the sample items below. Parts of each word have been erased. Try to read what each word is. Write your answers on the lines provided. All the words used in this test will be at least four letters long. No word will contain any capital letters.

1. parents

2. eas

3. gian

Did you recognize the words as 1. parents, 2. easy, and 3. giant?

Your score on this test will be the number of correct answers that you write. Work as quickly as you can without sacrificing accuracy. If some words are difficult, skip them, and return to them later if you have time.

You will have 4 minutes for each of the two parts of this test. Each part has 25 items on two pages. Be sure to do the items on both pages if you have time. When you finish Part 1 (pages 2 and 3), STOP. Do not go on to Part 2 until asked to do so.

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

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1. think
2. wash
3. looking
4. people
5. live
6. money
7. work
8. night
9. job
10. answer
11. singer
12. teacher
13. student
DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.

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Part 2 (4 minutes)

26. 

27. 

28. 

29. 

30. 

31. 

32. 

33. 

34. 

35. 

36. 

37. 

38. 

GO ON TO THE NEXT PAGE
Part 2 (continued)

39. ___________________________

40. ___________________________

41. ___________________________

42. ___________________________

43. ___________________________

44. ___________________________

45. ___________________________

46. ___________________________

47. ___________________________

48. ___________________________

49. ___________________________

50. ___________________________

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.
SNOWY PICTURES -- CS-3

It is helpful to be able to see objects quickly in spite of their being partially concealed by snow, rain, haze, darkness, or other visual obstructions. In this test you will be asked to recognize hard-to-see objects.

Look at the picture below. What object do you see?

Sample Item 1:

1. ________

By looking carefully at this sample you will see an anchor. The word anchor has been written on the line under the picture.

Now try another sample. Write the name of the object on the line provided.

Sample Item 2:

2. ________

The picture shows a small boat sitting in the water. Boat, rowboat, or other similar words would be correct answers.

Your score on this test will be the number of objects that you name correctly. Work as quickly as you can without sacrificing accuracy. If some pictures are difficult, skip them and return to them later if you have time.

You will have 3 minutes for each of the two parts of this test. Each part has one page with 12 objects to identify. When you have finished Part 1, STOP. Do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (3 minutes)

Write one or two words to describe each picture.

1. ______________
2. ______________
3. ______________
4. ______________
5. ______________
6. ______________
7. ______________
8. ______________
9. ______________
10. ______________
11. ______________
12. ______________
Write one or two words to describe each picture.

13. __________
14. __________
15. __________
16. __________
17. __________
18. __________
19. __________
20. __________
21. __________
22. __________
23. __________
24. __________

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.
SCRAMBLED WORDS -- CV-1

This is a test of your ability to unscramble a group of letters and make a word out of them.

Look at the groups of letters below. If they are unscrambled, each group will spell a common English word.

I. mtri
II. nwti
III. lrfi

The first group spells trim when it is unscrambled. The second group spells twin; and the third group spells flat.

Now try the practice items below. Print or write clearly the word that can be made by unscrambling the letters. Remember that you must use all of the letters of the scrambled word.

IV. ievg
V. veah
VI. dkse
VII. birc

You could have written give for IV; have for V; desk for VI; and crib for VII.

Your score on this test will be the number of words that you unscramble correctly. Therefore, it will not be to your advantage to spend a lot of time on a hard word. Remember that all of the unscrambled words are common English words; proper names (of people and places) are not used.

You will have 5 minutes for each of the two parts of this test. Each part has one page with 25 words. When you have finished Part 1, STOP. Do not go on to Part 2 until asked to do so.
Part 1 (5 minutes)

Print or write clearly the word that can be made by unscrambling the letters. Do not spend too much time on any one word.

1. erte __________ 14. lubb __________
2. toab __________ 15. lapy __________
3. ocni __________ 16. lilb __________
4. kobo __________ 17. omme __________
5. malc __________ 18. plai __________
6. dsle __________ 19. ract __________
7. nlie __________ 20. taib __________
8. hifs __________ 21. dese __________
9. vloe __________ 22. donp __________
10. dimm __________ 23. uits __________
11. liml __________ 24. foor __________
12. rowk __________ 25. yrea __________
13. noge __________

DO NOT GO ON TO PART 2 UNTIL ASKED TO DO SO

STOP.
Part 2 (5 minutes)

Print or write clearly the word that can be made by unscrambling the letters. Do not spend too much time on any one word.

26. phel  
27. moev  
28. toof  
29. hacs  
30. oksc  
31. lihl  
32. rocn  
33. arbn  
34. taeh  
35. kate  
36. nurb  
37. dowr  
38. misl  
39. eaid  
40. olok  
41. tebe  
42. nowk  
43. tath  
44. riha  
45. tleb  
46. letl  
47. lipe  
48. hdan  
49. teri  
50. yitc

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
HIDDEN WORDS -- CV-2

In this test you will be asked to find words that are hidden in a line of letters.

Look at the example below:

I R T N U Y S H I P I M S A F Y V P U L L O F T F I V E B E L T

A circle has been drawn around each group of four consecutive letters that spells a common English word. The same letter can be used in only one word; that is, the words cannot overlap. Only four-letter words are used in this test. There may be one, two, three, four, or five words in a line.

Read each row from left to right. Draw a circle around each group of four letters that spells a common English word. Now try the practice items below.

1. D O O R L O D E I D X U J Q Z V H E A D I P L C A G M I N E K

2. L T R E Q A B I R D P Q A W A N T O T F O U S A I D Z R O V L

You should have found the words DOOR, LODE, HEAD, MINE in the first line and BIRD, WANT, SAID in the second line.

Your score on this test will be the number of four-letter words which you find. Proper names (of people and places) will not be used.

You will have 4 minutes for each of the two parts of this test. Each part has one page with 20 lines of letters. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

Do not turn this page until asked to do so.

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Part 1 (4 minutes)

In the lines below, circle each group of four letters that spells a common English word. Read each line from left to right.

1. EZIRTMODSLOWTSEXQLNECKBWOCJAKX
2. ICTWRAWEMETUGDECKXERTBLEADEABLE
3. EPSOFETYUQGLEGSKIMGAMEALJYEWLLUO
4. BANKISSHFAIANDOGIVQBOATGDWYOPASS
5. IGRHISEPQUOIVCIAUXTXALAXTHAT
6. IFKZONEXKIMYOLKHSYTVBQHERLOSTHG
7. VSOTLATEHNDNILASTTXZAPLGNIORETEZ
8. VNEXTNIBJCAHWEVENWAHYOXPULLCTL
9. BICZIGRUSEOMELEBJCSUTBTHINKDARHI
10. TCYQNIYSMGONEYICUTELOHAEOYKNIZA
11. RBCILWENTCTGEHFTTHARDGZIBYWINK
12. IHNOSEBQPLOTROPEPYUJEMWGLRMLTZ
13. ASEBULLEGGBULGBUSNOWLIVEDNOSEUSHJ
14. RPOTYULOVEABWPFLEWEQIUJULJMDDAZD
15. PARTDYZUHLNSERTHORNIDLOWORKQIEGS
16. FHOEKDOWRPTUTYBEMSTINKWBEVENUIV
17. PLAYICWKNMELHEATEZURISSESOKJECXA
18. DEHJIOIRTHTVASRQVCASOLOTQUAJW
19. POORHPYXZFRQUIZUTOWNTMAKESZNAVY
20. OWTQOWEXVGBEGTHATDODTYURDIENRO

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Part 2 (4 minutes)

In the lines below, circle each group of four letters that spells a common English word. Read each line from left to right.

21. SZOWTHQOWEXVGBEGWHATDODYURDIDN
22. ROFORTSEXSXURGXSOTKNEEEIBRLUTOBR
23. AUEKITFEPHEATULMLUFKLOUDNHCROT
24. DGJCAHWULMICSJWESTZSABESTKICAK
25. EDEGEIWRBERUPUSHQLTYZSHOPZATIQV
26. EKJTHEYEAChLHASOMEPLOTIDVAUOTXL
27. RLFootNEXTEFKSARHOJNLESOUPHELP
28. VKOICBULACKHMPYXRYOFLEWSACXTAXI
29. RMOREGCAFLIBRMOKJUYHAVEIRZWAPE
30. COMESUYNITPARTKEHOWIQPSMEMPIOEP
31. PWLNHANREWIDHATEOWQUALIDIMEIKSOKR
32. OPONDNDIUDSLOWMICJALSOKTWINIKNY
33. ESECUHIDEUVAHLAUBANKTREAIIDISHT
34. DANTIRSGLTOCTMEDJQUORPOCARDOPVYO
35. RVEPMOYRNTUKVORDCBAJTZEWCEGX
36. CALLLESMOKTPTHEYSIRKOICOATOFAXRAK
37. OIRLECVIOQPUGHICALLKXOYKAEVILWX
38. NRYOUERVROMPVOWOWOLFESALTMMGRINWM
39. EJUYPDOKTOLPQZDYHIGHKEOHFSGEIQ
40. MOSTOLICOSTLQUWOPAIRKOMLAROSKEV

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
INCOMPLETE WORDS -- CV-3

This is a test of your ability to complete words when some of the letters are missing.

Look at the example below:

sum_ ary

You could put the letter "m" in the blank and make the word summary. Now look at this example which has two letters missing:

h__ gh__ ay

You can make the word highway by putting an "i" in the first blank and a "w" in the second blank.

Sometimes it might be possible to use any one of several different letters to complete a word. For example:

d__ mp

could be completed by adding a "u" to make the word dump, or an "a" to make the word damp.

Now try these practice items. In each blank, write one letter. When a word has more than one blank, each blank has its own number.

\[
\begin{align*}
  f_ & _ \text{ce} \\
  1 & \\
  w_ & _ \text{th} \\
  2 & \\
  f_ & _ \text{lder} \\
  3 & \\
  \text{oys} & _ \text{er} \\
  4 & \\
  \text{b} & _ \text{rge} \\
  5 & \\
  \text{te} & _ \text{eph} & _ \text{ne} \\
  6 & 7
\end{align*}
\]

You could have made the following words: 1. face; 2. with; 3. folder; 4. oyster; 5. barge; and 6 and 7, telephone.

Your score on this test will be the number of words that you complete correctly.

You will have 3 minutes for each of the two parts of this test. Each part has one page with 18 words to complete. Do not spend too much time on any one word. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

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Part 1 (3 minutes)

Complete each word by writing one letter for each blank. Do not spend too much time on any one word.

1 tam 2
   3 qual r 4 5
   6 rith tic 7 8
   9 ir ane 10 11
12 rogra 13
14 ib ry 15 16
17 uit ase 18
19 le ant 20 21
22 er on ity 23 24 25
26 dmin st tion 27 28 29
30 olle e 31
32 and erchi 33 34 35
36 ene it 37
38 nc clo edia 39 40
41 ib ary 42
43 el ful 44
45 tt tud 46 47
48 ar a e 49 50

DO NOT GO ON TO PART 2 UNTIL ASKED TO DO SO

STOP.
Part 2 (3 minutes)

Complete each word by writing one letter for each blank. Do not spend too much time on any one word.

1. _du_ _tion
   51 52 53

2. _of_ _e
   54 55

3. _ea_ _er
   56 57 58

4. _ub_ _r_ _e
   59 60 61 62

5. _is_ _o_ _tion
   63 64 65 66

6. _ria_ _le
   67 68 69

7. _ol_ _ntee
   70 71 72

8. _lash_ _ht
   73 74 75

9. _oor_ _a_
   76 77 78

10. _ol_ _ay
    79 80 81

11. _hoi_ _e
    82 83

12. _emo_ _y
    84 85

13. _or_ _or_ _ance
    86 87 88

14. _eha_ _or
    89 90

15. _ta_ _ue
    91 92

16. _tu_ _nt
    93 94

17. _edu_ _ion
    95 96 97

18. _ech_ _que
    98 99 100

---

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.

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CONTROLLED ASSOCIATIONS TEST -- FA-1

When you are writing, it is often necessary to think of several different words having the same meaning or similar meanings, so that you do not have to repeat one word again and again. In this test you will be asked to think of words having meanings which are the same as or similar to a given word. The given words will be ones that are well known to you.

For example, if the word were short, you would write at least some of the words written below:

short: brief abbreviated concise momentary
       little limited deficient abrupt
       petite crisp compact curtailed

Now try this one. You probably will not be able to fill in all the spaces, but write as many words as you can think of.

weak:
       
       
       

Your score will be the number of correct words that you write.

You will have 6 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (6 minutes)

Write as many words as you can that have meanings which are the same as or similar to the four words below:

<table>
<thead>
<tr>
<th>clear</th>
<th>dark</th>
<th>strong</th>
<th>wild</th>
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Part 2 (6 minutes)

Write as many words as you can that have meanings which are the same as or similar to the four words below:

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DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
OPPONENTS TEST — FA-2

In this test you will be asked to think of words which are the opposite or nearly the opposite in meaning to a given word.

For example, if the word were EASY, you might think of some of the words written below.

EASY:

hard  
difficult 
complicated

arduous  
exacting  
burdensome

Now try to think of some words which mean about the opposite of the word given below. You may not be able to fill in all of the spaces, but write as many words as you can (up to six) which are opposite in meaning to the word given.

ACCEPT:


Some of the words which you might have written are decline, deny, disregard, neglect, reject, and refuse.

Your score on this test will be the number of correct words that you write.

You will have 5 minutes for each of the two parts of this test. Each part has one page with four given words. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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Part 1 (5 minutes)

Write as many words as you can (up to six) which mean the opposite or nearly the opposite of the words below:

1. CALM:

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

2. WRONG:

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

3. FAIR:

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

4. AWKWARD:

   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Part 2 (5 minutes)

Write as many words as you can (up to six) which mean the opposite or nearly the opposite of the words below:

5. LOYAL:

________________________________________________________

________________________________________________________

________________________________________________________

6. FEARFUL:

________________________________________________________

________________________________________________________

________________________________________________________

7. GENTLE:

________________________________________________________

________________________________________________________

________________________________________________________

8. UGLY:

________________________________________________________

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DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
INCOMPLETE WORDS -- CV-3

This is a test of your ability to complete words when some of the letters are missing.

Look at the example below:

sum_ ary

You could put the letter "m" in the blank and make the word summary. Now look at this example which has two letters missing:

h__gh__ ay

You can make the word highway by putting an "i" in the first blank and a "w" in the second blank.

Sometimes it might be possible to use any one of several different letters to complete a word. For example:

d__ mp

could be completed by adding a "u" to make the word dump, or an "a" to make the word damp.

Now try these practice items. In each blank, write one letter. When a word has more than one blank, each blank has its own number.

f__ ce
1

oys__ er
4

w__ th
2

b__ rge
5

f__ lder
3

te__ eph__ ne
6
7

You could have made the following words: 1. face; 2. with; 3. folder; 4. oyster; 5. barge; and 6 and 7, telephone.

Your score on this test will be the number of words that you complete correctly.

You will have 3 minutes for each of the two parts of this test. Each part has one page with 18 words to complete. Do not spend too much time on any one word. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
FIGURES OF SPEECH — FA-3

In this test you will be asked to think of words or phrases that could be used in making figures of speech which compare one object with another. For example:

She was as pale as: ________

(a) death

(a) white

Now try to think of some words or phrases that could complete the figure of speech given below. You may not be able to fill in all of the spaces, but write as many words as you can. The word a or an can be used in addition to the comparison word whenever you think it is necessary.

The jewels sparkled like:

____________________

____________________

____________________

You might have chosen words like fireflies, twinkling stars, or dew drops in the sun to complete this figure of speech.

Your score on this test will be the number of correct words or phrases which you write.

You will have 5 minutes for each of the two parts of this test. Each part has one page with five sentences to complete. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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Write as many words or phrases as you can think of (up to three) to complete each figure of speech.

1. The pans were shiny as:

2. The car went as fast as:

3. The sky looked like:

4. The roar of the cannon was as loud as:

5. The smell of fresh bread was like:

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Write as many words or phrases as you can think of (up to three) to complete each figure of speech.

6. The flowers smell as sweet as:
   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

7. The fur was as soft as:
   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

8. The taste of the fruit was like:
   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

9. The silence of the forest was like:
   ______________________________________________________
   ______________________________________________________
   ______________________________________________________

10. The voice of the sea was like:
     ____________________________________________________
         ________________________________________________
         ________________________________________________

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
MAKING SENTENCES -- FE-1

In this test you will be asked to write sentences containing words that begin with specified letters. You will also be told what the length of the sentence is to be. The sentences can be either sensible or foolish but they must be understandable and not just a group of unrelated words.

Each item will consist of a group of asterisks and letters followed by blanks. When you write the sentence you must begin a word with each of the letters that is given; where there is an asterisk you may use any word you wish. Each sentence must use the letters and asterisks in the order that they are given. For example:

\[ E \underline{\quad} * \underline{\quad} R \underline{\quad} T \underline{\quad} * \underline{\quad} \]

\[ E \text{very} * \text{boy} \text{ read} \text{ the} * \text{book} \]

You are to look at each group of letters and asterisks and write down whatever sentence you think of first. There are no restrictions on the words you may use or on their length except that proper names, such as the names of people or places, may not be used. Abbreviations may not be used either but you may use contractions such as aren't or we'll.

Now try this sample:

\[ T \underline{\quad} * \underline{\quad} W \underline{\quad} W \underline{\quad} * \underline{\quad} \]

Sentences like "This is what we need." or "Termites eat wooden watches frequently." are correct. A sentence like "This is Wanda Witch's birthday." is not correct because it uses a proper name.

Your score will be the number of acceptable sentences which you write.

You will have 5 minutes for each of the two parts of this test. Each part has one page with 10 sentences. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 1 (5 minutes)

Write a sentence for each of the number items. Use one word for each letter or asterisk.

1. L * * * F

2. T * * H

3. S * A *

4. * F W *

T

5. S * * E *

* *

6. * E * *

E

7. T * D *

* G

8. * F L *

G P

9. E * D *

* R

10. * G * B *

* B

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Copyright © 1975 by Educational Testing Service. All rights reserved. STOP.
Write a sentence for each of the numbered items. Use one word for each letter or asterisk.

11. W________________*________________*________________G________________.

12. *________________P________________*________________P________________.

13. T________________*________________D________________*________________.

14. T________________*________________I________________*________________

*________________.

15. S________________L________________*________________*________________

L________________.

16. I________________*________________*________________G________________

C________________.

17. T________________*________________*________________G________________

M________________*________________.

18. A________________*________________R________________*________________

*________________S________________.

19. T________________O________________*________________W________________

*________________E________________.

20. Y________________*________________*________________V________________

S________________*________________.
ARRANGING WORDS -- FE-2

In this test you will be asked to write as many sentences as you can using four specified words.

For example:

TAKE FEW LAND LITTLE

1. Few crops take little land.
2. A few little boats take supplies to land.
3. Take a few little boys with you to see the plane land.

All four words are used in each sentence. The words must be used in the form that is given; for example, you cannot use "taking" or "took" instead of take. Notice that the sentences may be any length. All sentences must differ from one another by more than merely one or two changed words, such as different pronouns or adjectives.

Now try this example. Remember to number each new sentence as was done in the example above.

WRITE WORDS LONG OFTEN

Your score will be the number of different sentences that you write.

You will have 5 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (5 minutes)

Write as many sentences as you can using the four words given below. Number each new sentence.

SISTER YEAR NEVER CATCH

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO

STOP.

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Write as many sentences as you can using the four words given below. Number each new sentence:

HAT  FALSE  TERRIBLY  LIKE

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
REWITING — PE-3

In writing it is often necessary to rephrase a sentence differently from the way in which the idea was originally stated. You will be asked to rewrite sentences in this way for this test.

For example:

"In response to the teacher's question, a forest of hands shot up."

Might be rewritten as:

a) "When the teacher asked a question, almost every hand was raised to answer it."

Can you think of another way to say the same thing?

b) ____________________________________________

Each of the items in this test will consist of a sentence which you are to re-write. Try to write two new sentences for each sentence given. You should try to use different words and different sentence constructions. Do not change the meaning of the original sentence.

Your score will be the number of acceptable sentences which you write.

You will have 5 minutes for each of the two parts of this test. Each part has one page with three sentences. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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Part 1 (5 minutes)

Rewrite each sentence in two different ways.

1. "The heat of the summer was more seen than felt, making a gray smoky void where the valley used to be."
   a) 
   
   b) 

2. "The liquid rays of sun spread across the desert filling the air with a glow of dancing dust."
   a) 
   
   b) 

3. "After the gun was fired, the air was heavy with the smell of blood and powder fumes."
   a) 
   
   b) 

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO
Part 2 (5 minutes)

Rewrite each sentence in two different ways.

4. "From the flat red sea of sand rose great rocks resembling vast cathedrals."
   a) __________________________________________________________
   b) __________________________________________________________

5. "Everything about the man was hairy, from the beard and mop of curly hair to the dark patches smudging the backs of his hands."
   a) __________________________________________________________
   b) __________________________________________________________

6. "The ice cream vendor drove slowly through the quiet streets, clanging his bell and watching the afternoon shadows lengthen."
   a) __________________________________________________________
   b) __________________________________________________________

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
ORNAMENTATION TEST — FF-1

This is a test of your ability to think of as many different ways as possible to decorate an object.

Look at the sample below. The first picture shows a plain lampshade. The second shows the same lampshade after a design has been added to it. Can you think of two more designs for the other two lampshades?

The decorations you put on objects in this test can be of any type, but each must be different. Random marks or scribbles will not be considered as designs. Each decoration can be as simple or as complicated as you choose. However, your score, on this test will be the number of different designs you make. Therefore, it will not be to your advantage to spend too much time on any one design.

You will have 2 minutes for each of the two parts of the test. Each part has one page with 24 objects for you to ornament. When you have finished Part 1, STOP. Do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 1 (2 minutes)

Here are the outlines of some spoon handles. Decorate each of them differently.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 2 (2 minutes)

Here are the outlines of some flower pots. Decorate each of them differently.
ELABORATION TEST -- FF-2

This is a test of your ability to think of a number of different ways to add details to a design.

Look at the sample below. The first picture shows the original design on a playing card. The second picture shows one possible way to add to that design. Can you think of some others? Put them on the last two cards.

The material you add to each design can be whatever you wish, but each must be different. Random marks or scribbles will not be considered designs.

Each decoration can be as complicated as you choose. However, your score on this test will be the number of different designs to which you have added something. Therefore, it will not be to your advantage to spend too much time on any one design.

You will have 2 minutes for each of the two parts of this test. In each part there is one page with 20 objects for you to design. When you have finished Part 1, STOP. Do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 1 (2 minutes)

Here are some cups. Add something to the decoration on as many as you can.
Part 2 (2 minutes)

Here are some neckties. Add something to the decoration on as many as you can.
SYMBOLS TEST -- FF-3

This is a test of your ability to think up a number of different symbols that could be used to stand for certain words or ideas.

Look at the example below. The word is food. A sketch has been made to represent a fork and spoon. Can you think of other symbols that could represent food? Draw them in the boxes.

Food:

Each drawing can be as complicated as you choose. However, your score on this test will be the number of different symbols you draw. Therefore, you should not spend too much time on any one symbol or set of symbols.

This test has two parts of one page each. Each part asks you to think of five symbols for each of five words or ideas. You will have 5 minutes for each part. When you have finished Part 1, STOP. Do not go on to Part 2 until asked to do so.

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Draw as many symbols as you can think of (up to five) for each word or phrase below.

1. Library

2. Close the door

3. Sad

4. Rush

5. Keep off the grass

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Part 2 (5 minutes)

Draw as many symbols as you can think of (up to five) for each word or phrase below.

6. Post Office

7. Open the window

8. Happy

9. Quiet

10. Do not pick the flowers

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TESTS UNTIL ASKED TO DO SO

STOP.

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TOPICS TEST -- FI-1

This is a test to see how many ideas you can think of about a topic. Be sure to list all the ideas you can about a topic whether or not they seem important to you. You are not limited to one word. Instead you may use a word or a phrase to express each idea.

Here is a sample topic, "A train journey." Two examples are given below of ideas about the topic. Look at these examples. Now go ahead and fill in the blanks with more ideas about this topic.

number of miles

catching the train

Your score will be the number of appropriate ideas that you write.

You will have 4 minutes for each of the two parts in this test. Each part has one page with one topic. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
Part 1 (4 minutes)

The topic is: "A man going up a ladder."

List all the ideas you can about a man going up a ladder.

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________________________________________________________________________
The second topic is: "Crossing a stream."

List all the ideas you can about crossing a stream.

DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
THEME TEST -- FI-2

In this test you are to write a few paragraphs about two given themes. You are to write all you can about each theme. Use any idea whether or not it seems very closely related to the theme. Expand on any idea as much as you like, and be sure you write as much as you can.

For example, if the theme is "a tree," you might write a paragraph like the following:

*It was a big maple tree. It had stood beside the farm house for over one hundred years. It shaded the farm house on hot summer days. The children had a swing tied to one branch of the tree.*

Can you think of some other ideas?

Your score on this test will be related to the amount of appropriate material that you write.

You will have 4 minutes for each of the parts in this test. Each part has one page with one theme. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
Part 1 (4 minutes)

The topic is "a package."

Write all you can about a package.

(If you run out of space, write on the back of the preceding page.)

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO

STOP.
Part 2 (4 minutes)

The second topic is "a locked door."

Write all you can about a locked door.

(If you run out of space, write on the back of the preceding page.)

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.

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THING CATEGORIES TEST -- FI-3

This is a test to see how many things you can think of that are alike in some way.

Below are two examples of things that are always red or that are red more often than any other color. Look at these examples. Then go ahead and write in the blanks more things that are always red or that are red more often than any other color. You may use one word or several words to describe each thing.

Tomatoes

Brick

Your score will be the number of correct things that you write.

You will have 3 minutes for each of the two parts of this test. Each part has one page with one category. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
Part 1 (3 minutes)

The category is "round."

Go ahead and write all the things that are round or that are round more often than any other shape.

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DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (3 minutes)

The new category is "blue."

Go ahead and write all things that are always blue or that are blue more often than any other color.

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DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.

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WORD ENDINGS TEST — FW-1

This is a test of your ability to think rapidly of as many words as you can that have the same ending.

The words in the following list all end with ATE.

mate
crate
irritate
resonate

Now try thinking of some more words ending in ATE. Write them on the lines below. Names of people or places are not allowed.

____________________  ______________________
____________________  ______________________
____________________  ______________________
____________________  ______________________

For each part of this test, you will be asked to write as many words as possible ending with new sets of letters. Please remember that names of people or places are not allowed. Your score will be the number of correct words that you write.

You will have 3 minutes for each of the two parts of this test. Each part has one page with one set of letters. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (5 minutes)

Write as many words as you can that end with *AY*.

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DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (3 minutes)

Write as many words as possible that end with OW.

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DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
WORD BEGINNINGS TEST — FW-2

This is a test of your ability to think rapidly of as many words as you can that begin with certain letters.

The words in the following list all begin with RE.

red
rent
reduce
reconsider

Now try thinking of some more words beginning with RE. Write them on the lines below. Names of people or places are not allowed.

------------------------------
------------------------------
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For each part of this test, you will be asked to write as many words as possible beginning with new sets of letters. Please remember that names of people or places are not allowed. Your score on this test will be the number of correct words that you write.

You will have 3 minutes for each of the two parts of this test. Each part has one page with one set of letters. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (3 minutes)

Write as many words as you can that begin with PRO.

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DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (3 minutes)

Write as many words as you can that begin with SUB.

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DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.

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WORD BEGINNINGS AND ENDINGS TEST — FW-3

This is a test of your ability to think rapidly of as many words as you can that begin with one letter and end with another.

The words in the following list all begin with S and end with N.

sun
spin
stain
solution

Now try thinking of some more words beginning with S and ending with N. Write them on the lines below. Names of people or places are not allowed.

__________________________________________
__________________________________________
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For each part of this test, you will be asked to write as many words as possible with new sets of first and last letters. Please remember that names of people or places are not allowed. Your score on this test will be the number of correct words that you write.

You will have 3 minutes for each of the two parts of this test. Each part has one page with one pair of letters. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (3 minutes)

Write as many words as you can that start with S and end with P.

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DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (5 minutes)

Write as many words as you can that start with G and end with T.

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DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
LETTER SETS TEST -- I-1 (Rev.)

Each problem in this test has five sets of letters with four letters in each set. Four of the sets of letters are alike in some way. You are to find the rule that makes these four sets alike. The fifth letter set is different from them and will not fit this rule. Draw an X through the set of letters that is different.

NOTE: The rules will not be based on the sounds of sets of letters, the shapes of letters, or whether letter combinations form words or parts of words.

Examples:

A. NOPQ  DEF  ABCD  HJK  UVWX
B. NLIK  PLIK  QLIK  THIK  VLK

In Example A, four of the sets have letters in alphabetical order. An X has therefore been drawn through DEF. In Example B, four of the sets contain the letter L. Therefore, an X has been drawn through THIK.

Your score on this test will be the number of problems marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the letter sets.

You will be allowed 7 minutes for each of the two parts of this test. Each part has 1 page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 1 (7 minutes)

1. QPPQ  HGHH  TTTU  DDDE  MLMM
2. BCDE  FGHJ  JKLM  PRST  VWXY
3. BVZC  FVZG  JVZK  PWXQ  SVZT
4. BCEF  FGII  STWX  CDFG  PQST
5. BCCB  GFFG  LMML  QRRQ  WXXW
6. AAPP  CCRR  QQBB  EETT  DDSS
7. ABDC  ECFH  IJLK  OPRQ  UVWX
8. CERT  KMTV  FHZB  BODQ  HJPR
9. PABQ  SEFT  VIJW  COPD  FUZG
10. CFCR  JCVC  CGCS  CLXC  KCWC
11. XDBK  TNLL  VECV  PPCC  ZAGZ
12. CAEZ  CEIZ  CIOZ  CGVZ  CAUZ
13. VEBT  XCDV  ZIFX  KXVH  MZIJ
14. AFBG  EJFK  GKHM  PSQT  RWSX
15. KGDB  DFIM  KIFB  HJMQ  LHEC

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Part 2 (7 minutes)

16. ABCX  EFGX  LJKX  OPQX  UVWZ
17. LNLV  DFLI  CLNL  HRLL  LLWS
18. ABCE  EFGI  IJKM  OPQT  UVWY
19. GPPG  DCCD  STTS  RQQR  MLLM
20. DCDD  HGGH  MLLM  QQQR  WWVW
21. FEDC  MKJI  DCBA  HGFE  JIHC
22. BDBB  BFDB  BABB  BBJB  BBLB
23. BDCE  FHGI  JHKM  PRQS  TVWU
24. BDEF  FHIJ  HJKL  NPQR  SVWX
25. NABQ  PEFS  RQJV  GQPK  CUIW
26. DEGF  KLHJ  NOQP  PQSR  TURS
27. AQUU  CTZR  JHTN  PBRL  RTVF
28. BEPW  HJTX  KNRZ  KOSV  WFRM
29. RRBR  QQAR  FTEF  JXIJ  SSSC
30. QIFB  CGIJ  BCOR  ZRED  JIFC

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
LOCATIONS TEST — I-2

Each problem in this test consists of five rows of small dashes separated into groups by blank spaces. In each of the first four rows one dash is replaced by an "x". In the fifth row five of the dashes are replaced by numbers. In each problem there is a rule guiding the placement of the "x" in each of the first four rows. You are to figure out what that rule is and to use the rule in deciding where the "x" should come in row 5. When you have picked the number in row 5 which appears where the "x" belongs, draw an X through it.

Example A:

Row 1 ----------- --x -----  
Row 2 ----- --x-- -----------  
Row 3 ----------- --x -----  
Row 4 ----- --x--- -----------  
Row 5 ----------- 1--  X--3-4 5--

Example A has been correctly marked. In the first four rows the "x" always replaces the third dash from the left of a group. The group is always the second group in the row. Therefore the correct answer is 2 because the number 2 replaces the third dash of the second group in row 5.

Example B:

---------- x---- -------  
---------- -- x-- ----  
---------- x--------  
---------- x------  
1-------2 3---- 4-- 5--

In the first four rows of example B the "x" replaces the first dash in a group. The group with the "x" is always the next to last group in the row. Therefore the correct answer is 4, since the number 4 replaces the first dash in the next to last group in row 5.

You should expect to find any kind of relation or rule to explain the position of the x's.

Your score on this test will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 6 minutes for each of the two parts of this test. Each part has one page with 14 items. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

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FIGURE CLASSIFICATION — I-3

This is a test of your ability to discover rules that explain things. In each problem on this test there are either two or three groups, each consisting of three figures. You are to look for something that is the same about the three figures in any one group and for things that make the groups different from one another.

Now look at the sample problem below. In the first line, the figures are divided into Group 1 and Group 2. The squares in Group 1 are shaded and the squares in Group 2 are not shaded. In the second line a 1 has been written under each figure that has a shaded square as in Group 1. A 2 has been written under each figure with an unshaded square as in Group 2.

Now try this more difficult sample, which has three groups:

The figures in Group 1 consist of both straight and curved lines. The figures in Group 2 consist of curved lines only. The figures in Group 3 consist of straight lines only. As you can see, there are other details that have nothing to do with the rule. The answers are: 1, 1, 3, 1, 2, 1, 2, 2.

Your score on this test will be the number of figures identified correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea of the group to which the figure belongs.

You will have 8 minutes for each of the two parts of this test. Each part has 4 pages. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
## Part 1 (8 minutes)

<table>
<thead>
<tr>
<th>Group 1</th>
<th>Group 2</th>
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<td><img src="image1.png" alt="Image 1" /></td>
<td><img src="image2.png" alt="Image 2" /></td>
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</table>

| ![Image 3](image3.png) | ![Image 4](image4.png) |
| ![Image 5](image5.png) | ![Image 6](image6.png) |

| ![Image 7](image7.png) | ![Image 8](image8.png) |
| ![Image 9](image9.png) | ![Image 10](image10.png) |

| ![Image 11](image11.png) | ![Image 12](image12.png) |
| ![Image 13](image13.png) | ![Image 14](image14.png) |

| ![Image 15](image15.png) | ![Image 16](image16.png) |
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| ![Image 27](image27.png) | ![Image 28](image28.png) |
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| ![Image 31](image31.png) | ![Image 32](image32.png) |
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| ![Image 41](image41.png) | ![Image 42](image42.png) |

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**DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.**

STOP
DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP
CALENDAR TEST -- IP-1

This is a test of your accuracy in following directions. Each direction will ask you to find a date on a calendar which is printed on the last page of this booklet.

In this calendar you are to remember that:

1. A circled number is a holiday
2. Saturdays and Sundays are weekend days
3. All days except holidays and weekends are work days
4. The first day of Spring is March 21
5. The first day of Summer is June 21
6. The first day of Fall is September 21
7. The first day of Winter is December 21

Look at the sample items below. Put an x on the letter in front of the correct answer.

<table>
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<tr>
<th>S</th>
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</table>

I. What is the third Tuesday of the month?
   a. 15th  b. 17th  c. 22nd  d. 24th  e. Not given

II. What is the third working day after the holiday?
    a. 13th  b. 14th  c. 15th  d. 16th  e. Not given

III. What is the seventh working day after the third Monday of the month?
    a. 9th  b. 27th  c. 29th  d. 30th  e. Not given

The answers are I,a; II,d; III,d.

Your score will be the number of dates you mark correctly minus a fraction of those marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea about which date is correct.

This test has two parts. Each part has 10 dates for you to select. You will have 7 minutes for each part. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

Tear off the last page of this booklet now so you will be able to refer to that calendar easily as you take the rest of this test.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

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Part 1 (7 minutes)

Mark an x on the letter in front of the correct answer. Use the calendar that was the last page of this booklet.

1. What is the sixth day after November 29th?

2. What month has the only Tuesday the 12th?

3. What is the fourth working day after the third weekend in the month having the shortest name?
   a. 1st       b. 4th     c. 17th    d. 24th    e. Not given

4. In the first month having 30 days, what is the first working day after the 8th of the month?

5. The Sunday after the first holiday that falls on a Thursday is:

6. What is the sixth working day in the month which has a holiday that falls on a Friday?
   a. 8th       b. 9th     c. 10th    d. 19th    e. Not given

7. What is the eighth working day of the first month in which the 5th of the month falls on a weekend and in which there is only one holiday?

8. In the month whose 12th is on a Tuesday, what is the fifteenth working day?
   a. 22nd      b. 23rd    c. 24th    d. 27th    e. Not given

9. What is the third Wednesday in the month that follows the second month having exactly 9 weekend days?
   a. 15th      b. 16th    c. 17th    d. 18th    e. Not given

10. What is the last weekend day of the last month of the year for which the 5th is on a Tuesday or Thursday and during which there is no change of seasons?
    a. 28th      b. 29th    c. 30th    d. 31st    e. Not given

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2  (7 minutes)

Mark an x on the letter in front of the correct answer. Use the calendar that was the last page of this booklet.

11. What is the first Wednesday of the 5th month of the year?

12. What is the first working day following the third holiday of the year?

13. What is the second weekend day in the first month which does not have an "R" in its name?
   a. 2nd  b. 3rd  c. 4th  d. 5th  e. Not given

14. What is the first Tuesday of summer?

15. What is the fifth day following the 3rd of the month before the third change of seasons?
   a. 8th  b. 10th  c. 11th  d. 12th  e. Not given

16. One month both begins and ends on a weekend. In that month, on what day of the week is the first day that contains a 3 but does not fall on a Monday or a Thursday?
   a. Tue.  b. Wed.  c. Fri.  d. Sat.  e. Not given

17. What is the second summer Friday that is not among the first four days of the month?
   a. 6th  b. 10th  c. 13th  d. 20th  e. Not given

18. What is the first Thursday in the second month after the last month which has a "U" in its name?
   a. 4th  b. 6th  c. 8th  d. 11th  e. Not given

19. In the month latest in the year that both starts and ends on a working day, what is the first working day that occurs after the 15th of the month and that is not on the same day of the week that begins or ends the month?
   a. 16th  b. 17th  c. 18th  d. 19th  e. Not given

20. What day follows the first nine working days in the month containing the third change of seasons?
   a. 10th  b. 11th  c. 15th  d. 16th  e. Not given

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
1. A circled number is a holiday.
2. Saturdays and Sundays are weekend days.
3. Other days except holidays are working days.
4. The first day of Spring is March 21.
5. The first day of Summer is June 21.
6. The first day of Fall is September 21.
7. The first day of Winter is December 21.
FOLLOWING DIRECTIONS — IP-2

This is a test of your ability to follow a set of directions. You will be given a pattern of letters to look at and will be asked questions about how certain directions will change that pattern. The answer to each question will be one of the letters in the pattern. You are to decide which letter is correct and put an x on that letter.

Look at this example:

<table>
<thead>
<tr>
<th>Column</th>
</tr>
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<tbody>
<tr>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>Row 1 A B C D E</td>
</tr>
<tr>
<td>Row 2 E A B C D</td>
</tr>
<tr>
<td>Row 3 D E A B C</td>
</tr>
<tr>
<td>Row 4 C D E A B</td>
</tr>
<tr>
<td>Row 5 B C D E A</td>
</tr>
</tbody>
</table>

I. Which is the only letter that appears directly above the letter A?
   A B C D E

II. If one letter occurs more frequently than another, the answer is the most frequently occurring letter; if no letter occurs most frequently, the answer is the letter in the upper left to lower right diagonal.
   A B C D E

You should have marked B for I and A for II.

Your score on this test will be the number of letters which you mark correctly minus a fraction of those incorrect. Therefore it will not be to your advantage to guess unless you are fairly certain of your answer.

This test has two parts. Each part has 10 items on one page. You will have 7 minutes for each part. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
All of the directions and questions in Part I will be asked about the pattern of letters below: Mark an x on the correct letter for each question.

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row 1</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
<tr>
<td>Row 2</td>
<td>B</td>
<td>D</td>
<td>E</td>
<td>A</td>
<td>C</td>
</tr>
<tr>
<td>Row 3</td>
<td>C</td>
<td>E</td>
<td>D</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Row 4</td>
<td>B</td>
<td>A</td>
<td>C</td>
<td>E</td>
<td>D</td>
</tr>
<tr>
<td>Row 5</td>
<td>A</td>
<td>C</td>
<td>E</td>
<td>B</td>
<td>D</td>
</tr>
</tbody>
</table>

1. In row 2, what letter appears between D and A?
   - A B C D E

2. What letter comes between E and A in Row 3?
   - A B C D E

3. What letter would come above the C in Row 5 if the letters in Row 4 were reversed?
   - A B C D E

4. The answer to this question is the letter immediately to the right of the middle letter of Row 4.
   - A B C D E

5. What is the letter that appears just to the right of the letter that is immediately over the one just to the left of the A in Row 4?
   - A B C D E

6. If E is closer to the left end of Row 2 than B, the answer is B; if not, the answer is the letter most frequently coming immediately to the right of A in the pattern.
   - A B C D E

7. Suppose Rows 1, 3, and 5 were all written backwards, while Rows 2 and 4 remain as they are. What letter will then occur two times in Column 4?
   - A B C D E

8. Start in the lower left hand corner and follow the letters up Column 1, down Column 2, up Column 3, and so on until you reach the upper right hand corner. What is the first letter to appear four times?
   - A B C D E

9. Start in the upper left hand corner of the pattern and follow the letters around the outside of the pattern in a clockwise (to the right) direction. What is the second letter following the letter between the second C and the second D you come to?
   - A B C D E

10. If A appears in one diagonal (lower left to upper right) more often than D appears in the other diagonal (upper left to lower right), the answer is A; if not, the answer is the letter that does not appear in either diagonal which comes latest in the alphabet.
    - A B C D E

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP
Part 2 (7 minutes)

All of the directions and questions in Part 2 will be asked about the pattern of letters below: Mark an x on the correct letter for each question.

<table>
<thead>
<tr>
<th>Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>Row 1</td>
</tr>
<tr>
<td>Row 2</td>
</tr>
<tr>
<td>Row 3</td>
</tr>
<tr>
<td>Row 4</td>
</tr>
<tr>
<td>Row 5</td>
</tr>
</tbody>
</table>

11. What letter is just above the E in Row 4?
   A B C D E

12. Suppose Row 2 were written backwards. What letter would come under B in Row 1?
   A B C D E

13. In Row 3, if B appears anywhere to the right of C, the answer is the first letter of Row 1; if not, the answer is the last letter of Row 3.
   A B C D E

14. There are two letters that never appear at the right end of a row. The answer is the one that comes later in the alphabet.
   A B C D E

15. If A is ever immediately under B, the answer is the letter in Row 1 which that A is under, if not, the answer is the letter in Row 4 which has A over it.
   A B C D E

16. Suppose Rows 2 and 4 were written backwards; while Rows 1, 3, and 5 remain as they are. What letter will occur only once in Column 2?
   A B C D E

17. The answer to this problem is the letter in Row 4 which is over the letter of Row 5 that never appears at the left end of a row.
   A B C D E

18. Start in the upper left hand corner. Read down Column 1, then read down Column 2, and so on. If the first A you come to is followed immediately by an E, the answer is the letter in front of the next D. However, if the first A is not followed immediately by an E, the answer is the letter after whatever one does follow the first A.
   A B C D E

19. Start in the upper right hand corner and follow the letters around the outside of the pattern in a counterclockwise (to the left) direction. What is the second letter following the letter between the third B and the third C that you come to?
   A B C D E

20. If you draw a line through the two diagonals (upper left to lower right and upper right to lower left) and erase those letters, you will have four triangles of four letters each remaining. If none of these four triangles has two letters alike in them, the answer is the letter that appears least often in the triangles; if not, the answer is the letter that appears where the two diagonals cross.
   A B C D E

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.
This is a test of your ability to learn picture-number combinations. In each part of the test you will study a page of 21 pictures with numbers. After studying the page showing both pictures and numbers, you will turn to a page showing the pictures in a different order. You will be asked to write down the numbers that go with them.

Here are some practice pictures with numbers. Study them until you are told to turn to the next page (1 minute).
PRACTICE TEST PAGE

For the first picture the correct number has been written. Write all of the other numbers that you can remember.

Your score will be the number marked correctly. Even if you are not sure of the correct answer to a question, it will be to your advantage to guess.

There are two parts in this test. Each part has two pages:

The first of these is a memory page which you are to study for 4 minutes.

The second is a test page on which you are to write the numbers that go with the pictures. You will have 3 minutes to write.

When you have finished Part 1, STOP. Please do not go to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
MEMORY PAGE FOR PART 1 (4 minutes)

Study this page.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>62</td>
<td></td>
</tr>
<tr>
<td></td>
<td>82</td>
<td></td>
</tr>
<tr>
<td></td>
<td>74</td>
<td></td>
</tr>
<tr>
<td></td>
<td>42</td>
<td></td>
</tr>
<tr>
<td></td>
<td>99</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>27</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td></td>
</tr>
<tr>
<td></td>
<td>51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>98</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>88</td>
<td></td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>77</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>

DO NOT TURN TO THE NEXT PAGE UNTIL YOU ARE ASKED TO DO SO.

STOP.
MEMORY PAGE FOR PART 2 (4 minutes)

Study this page.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>37</td>
<td>53</td>
</tr>
<tr>
<td>76</td>
<td>40</td>
<td>79</td>
</tr>
<tr>
<td>17</td>
<td>31</td>
<td>29</td>
</tr>
<tr>
<td>33</td>
<td>52</td>
<td>84</td>
</tr>
<tr>
<td>48</td>
<td>61</td>
<td>47</td>
</tr>
<tr>
<td>25</td>
<td>39</td>
<td>64</td>
</tr>
<tr>
<td>56</td>
<td>87</td>
<td>93</td>
</tr>
</tbody>
</table>
This is a test of your ability to learn combinations of words and numbers. In each part of the test you will study a page showing 15 object names with numbers. After studying the page showing both objects and numbers you will turn to a page showing the names of the objects in a different order. You will be asked to write down the numbers that go with them.

Here is a practice list. Study it until you are asked to turn to the practice test page (1 minute).

<table>
<thead>
<tr>
<th>Object</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>window</td>
<td>73</td>
</tr>
<tr>
<td>desk</td>
<td>41</td>
</tr>
<tr>
<td>carpet</td>
<td>19</td>
</tr>
<tr>
<td>door</td>
<td>84</td>
</tr>
<tr>
<td>glass</td>
<td>90</td>
</tr>
</tbody>
</table>

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
For the first object below, the correct number has been written. Write all of the other numbers that you can remember.

<table>
<thead>
<tr>
<th>Object</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>desk</td>
<td>41</td>
</tr>
<tr>
<td>glass</td>
<td></td>
</tr>
<tr>
<td>window</td>
<td></td>
</tr>
<tr>
<td>door</td>
<td></td>
</tr>
<tr>
<td>carpet</td>
<td></td>
</tr>
</tbody>
</table>

Your score will be the number marked correctly. Even if you are not sure of the correct answer to a question, it will be to your advantage to guess.

There are two parts in this test. Each part has two pages:

- The first of these is a memory page which you are to study for 3 minutes.

- The second is a test page on which you are to write the numbers that go with the objects. You will have 2 minutes to write.

When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Study this list. You will have 3 minutes.

<table>
<thead>
<tr>
<th>Object</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>tree</td>
<td>58</td>
</tr>
<tr>
<td>floor</td>
<td>29</td>
</tr>
<tr>
<td>chair</td>
<td>33</td>
</tr>
<tr>
<td>wall</td>
<td>56</td>
</tr>
<tr>
<td>shoe</td>
<td>17</td>
</tr>
<tr>
<td>table</td>
<td>78</td>
</tr>
<tr>
<td>coat</td>
<td>49</td>
</tr>
<tr>
<td>roof</td>
<td>22</td>
</tr>
<tr>
<td>dish</td>
<td>36</td>
</tr>
<tr>
<td>pillow</td>
<td>43</td>
</tr>
<tr>
<td>post</td>
<td>65</td>
</tr>
<tr>
<td>tile</td>
<td>35</td>
</tr>
<tr>
<td>plate</td>
<td>26</td>
</tr>
<tr>
<td>shade</td>
<td>40</td>
</tr>
<tr>
<td>rock</td>
<td>62</td>
</tr>
</tbody>
</table>

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Write the number that belongs with each of the objects. You will have 2 minutes.

<table>
<thead>
<tr>
<th>Object</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>coat</td>
<td>_____</td>
</tr>
<tr>
<td>post</td>
<td>_____</td>
</tr>
<tr>
<td>pillow</td>
<td>_____</td>
</tr>
<tr>
<td>floor</td>
<td>_____</td>
</tr>
<tr>
<td>shoe</td>
<td>_____</td>
</tr>
<tr>
<td>shade</td>
<td>_____</td>
</tr>
<tr>
<td>tile</td>
<td>_____</td>
</tr>
<tr>
<td>roof</td>
<td>_____</td>
</tr>
<tr>
<td>wall</td>
<td>_____</td>
</tr>
<tr>
<td>rock</td>
<td>_____</td>
</tr>
<tr>
<td>tree</td>
<td>_____</td>
</tr>
<tr>
<td>chair</td>
<td>_____</td>
</tr>
<tr>
<td>plate</td>
<td>_____</td>
</tr>
<tr>
<td>dish</td>
<td>_____</td>
</tr>
<tr>
<td>table</td>
<td>_____</td>
</tr>
</tbody>
</table>

DO NOT TURN TO PART 2 UNTIL ASKED TO DO SO.
MEMORY PAGE FOR PART 2

Study this list. You will have 3 minutes.

<table>
<thead>
<tr>
<th>Object</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mop</td>
<td>23</td>
</tr>
<tr>
<td>jacket</td>
<td>18</td>
</tr>
<tr>
<td>brick</td>
<td>54</td>
</tr>
<tr>
<td>mat</td>
<td>31</td>
</tr>
<tr>
<td>board</td>
<td>14</td>
</tr>
<tr>
<td>cup</td>
<td>77</td>
</tr>
<tr>
<td>bush</td>
<td>37</td>
</tr>
<tr>
<td>clip</td>
<td>42</td>
</tr>
<tr>
<td>spoon</td>
<td>63</td>
</tr>
<tr>
<td>piano</td>
<td>28</td>
</tr>
<tr>
<td>bed</td>
<td>59</td>
</tr>
<tr>
<td>ceiling</td>
<td>82</td>
</tr>
<tr>
<td>vase</td>
<td>44</td>
</tr>
<tr>
<td>poker</td>
<td>13</td>
</tr>
<tr>
<td>razor</td>
<td>91</td>
</tr>
</tbody>
</table>

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.
Write the number that belongs with each of the objects. You will have 2 minutes.

<table>
<thead>
<tr>
<th>Object</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mat</td>
<td>______</td>
</tr>
<tr>
<td>clip</td>
<td>______</td>
</tr>
<tr>
<td>poker</td>
<td>______</td>
</tr>
<tr>
<td>board</td>
<td>______</td>
</tr>
<tr>
<td>ceiling</td>
<td>______</td>
</tr>
<tr>
<td>spoon</td>
<td>______</td>
</tr>
<tr>
<td>vase</td>
<td>______</td>
</tr>
<tr>
<td>mop</td>
<td>______</td>
</tr>
<tr>
<td>cup</td>
<td>______</td>
</tr>
<tr>
<td>bed</td>
<td>______</td>
</tr>
<tr>
<td>bush</td>
<td>______</td>
</tr>
<tr>
<td>jacket</td>
<td>______</td>
</tr>
<tr>
<td>razor</td>
<td>______</td>
</tr>
<tr>
<td>piano</td>
<td>______</td>
</tr>
<tr>
<td>brick</td>
<td>______</td>
</tr>
</tbody>
</table>

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
FIRST AND LAST NAMES TEST — MA-3

This is a test of your ability to learn first and last names. In each part of the test you will study a page of 15 full names, first and last. After studying the page showing full names you will turn to a page showing a list of the last names in a different order. You will be asked to write the first names that go with each last name.

Here are some practice names. Study them until you are asked to turn to the next page (1 minute).

Janet Gregory
Thomas Adams
Roland Donaldson
Patricia Fletcher
Betty Bronson

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
The first name in the list below has been completed. Write all of the other first names that you can remember.

Patricia  Fletcher
           Bronson
           Donaldson
           Gregory
           Adams

Your score will be the number marked correctly. Even if you are not sure of the correct answer to a question, it will be to your advantage to guess.

There are two parts in this test. Each part has two pages:

The first of these is a memory page which you are to study for 3 minutes.

The second is a test page on which you are to write the first names that go with the last names. You will have 2 minutes to write.

When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
MEMORY PAGE FOR PART 1

Study this list. You will be allowed 3 minutes.

Claire Sullivan
Jack Thompson
Leon Chapin
John Reynolds
Joan White
Donald Lambert
Daniel Shaw
Kenneth Murray
Edward Nichols
Jean Wolfe
Carl Brown
Blanche Clark
Roger Lennon
Eloise Cooper
David Burgess

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.
TEST PAGE FOR PART 1

Complete the names below. You have 2 minutes.

______________________
Nichols

______________________
Cooper

______________________
Murray

______________________
Chapin

______________________
Brown

______________________
Reynolds

______________________
Sullivan

______________________
Lennon

______________________
Lambert

______________________
Wolfe

______________________
Burgess

______________________
Shaw

______________________
Thompson

______________________
Clark

______________________
White

DO NOT TURN TO PART 2 UNTIL ASKED TO DO SO.

STOP.
MEMORY PAGE FOR PART 2

Study this list. You will be allowed 3 minutes.

Walter Price
Robert Sweeney
Leo Wells
Shirley Watson
Barbara Lombard
Joseph Hall
Edith Manning
Bruce Green
James O'Donnell
Irene Buchanan
Stella Page
Judy Shea
Priscilla Bardon
Stanley Rhodes
Susan Tracy

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.
TEST PAGE FOR PART 2

Complete the names below. You have 2 minutes.

_________________________ Sweeney
_________________________ Lombard
_________________________ O'Donnell
_________________________ Rhodes
_________________________ Buchanan
_________________________ Price
_________________________ Watson
_________________________ Page
_________________________ Green
_________________________ Tracy
_________________________ Wells
_________________________ Bardon
_________________________ Manning
_________________________ Shea
_________________________ Hall

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
AUDITORY NUMBER SPAN TEST — MS-1

This is a test of your ability to remember series of numbers. The examiner will call out the numbers. After he finishes, you are to write down the numbers in the exact order in which they were called out. Please do not write any numbers until the examiner has finished the whole series.

Some of the series will be too long for you to remember all of the numbers. If you do not remember some of them, leave a blank space for them and write down all the numbers you do remember. Try to remember all the numbers if possible, and be sure to write them down in the exact order in which they were called out.

For example, the examiner might call out, "Series One. 7 2 4 Begin."

When he says "Begin" (showing that the series is complete), write the numbers on the answer page in this manner:

1. 7 2 4

It is very important that you do not write numbers while a series is being called out, since this is a test of your memory for numbers.

Your score on this test will be the number of series you remember correctly.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
This is a test of your ability to remember series of numbers. For each series the examiner will show you several numbers on cards, one after the other. After he finishes, you are to write down the numbers in the exact order in which they were shown to you. Please do not write any numbers until the examiner has finished the whole series.

Some of the series will be too long for you to remember all of the numbers. If you do not remember some of them, leave a blank space for them and put down all the numbers you do remember. Try to remember all the numbers if possible, and be sure to write them down so that they will be in the exact order in which they were written on the cards.

For example, the examiner might show you a card like this:

![Card with numbers: 7, then 2, then 4] and then say "Begin."

When he says "Begin" (showing that the series is complete), write the numbers on the answer page in this manner:

1. 7 2 4

It is very important that you do not write numbers while a series is being shown to you, because this is a test of your memory of numbers.

Your score on this test will be the number of series you remember correctly.
AUDITORY LETTER SPAN TEST — MS-3

This is a test of your ability to remember series of letters. The examiner will call out the letters. After he finishes, you are to write down the letters in the exact order in which they were called out. Please do not write any letters until the examiner has finished the whole series.

Some of the series will be too long for you to remember all of the letters. If you do not remember some of them, leave a blank space for them and write down all the letters you do remember. Try to remember all the letters if possible, and be sure to write them down in the exact order in which they were called out.

For example, the examiner might call out, "Series One. H R L Begin."

When he says "Begin" (showing that the series is complete), write the letters on the answer page in this manner:

1.  H R L

Only the following letters will be used: C, F, G, H, K, L, P, R, S, W, Y.

It is very important that you do not write letters while a series is being called out, because this is a test of your memory for letters.

Your score on this test will be the number of series you remember correctly.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
SHAPE MEMORY TEST -- MV-1

This is a test of your ability to remember a group of shapes and their positions in relation to each other.

You will be given a page of different shapes to study. After you have had some time to learn the shapes and their orientation, you will be asked to turn to a test page which will show some of the same shapes that you studied. For each picture on the test page you will be asked whether it is the same as the one in the study page or whether it is different from those you studied.

Now look at this sample:

After you have studied the sample above for about a minute, turn to the next page.
For each sample item mark the Y (Yes) if the item shows part of the picture you studied or the N (No) if the picture is not one you studied.

I. Y N II. Y N III. Y N

You should have marked the N on the answer sheet for item I, Y for item II, and Y for item III.

Remember the test items will show only a small part of the picture that was studied. Mark the Y for items that show the same shapes in the same orientation as on the study picture. Mark the N for items that show different shapes.

Your score on this test will be the number of items you mark right minus the number wrong. Therefore, it will not be to your advantage to guess if you are unsure about an answer.

There are two sections for each part of this test. The first of these is a study page for you to study for 4 minutes. The second part is the test section and contains 16 items. You will have 4 minutes to mark your answers.

When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Study Page for Part 1 (4 minutes)

Study the shapes below and their position in relation to each other.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.
Test Page for Part 1 (4 minutes)

For each item, mark the Y (Yes) if the shapes are the same and have the same position in relation to each other as on the study page. Mark the N (No) if they are different.

1. Y N  
2. Y N  
3. Y N  
4. Y N  
5. Y N  
6. Y N  
7. Y N  
8. Y N  
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13. Y N  
14. Y N  
15. Y N  
16. Y N  

DO NOT GO ON TO THE NEXT PART UNTIL ASKED TO DO SO.

STOP.
Study Page for Part 2 (4 minutes)

Study the shapes below and their position in relation to each other.
Test Page for Part 2 (4 minutes)

For each item, mark the Y (Yes) if the shapes are the same and have the same position in relation to each other as on the study page. Mark the N (No) if they are different.

17. 18. 19. 20.  
Y   N   Y   N   Y   N   Y   N

21. 22. 23. 24.  
Y   N   Y   N   Y   N   Y   N

25. 26. 27. 28.  
Y   N   Y   N   Y   N   Y   N

29. 30. 31. 32.  
Y   N   Y   N   Y   N   Y   N

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
BUILDING MEMORY -- MV-2

This is a test of your ability to remember the position of things on a street map.

You will be given a map with streets and buildings and other structures to study. After you have had some time to learn the street layout and the different kinds of structures, you will be asked to turn to a test page. On that page you will find the street map and numbered pictures of some of the structures. You will be asked to put an x on the letter that shows where each of the structures was located on the study map.

Now look at this simple and enlarged sample:

After you have studied the sample above for a minute, turn to the next page.
Look at the numbered houses on the left. For each item mark an X on the letter below each building that corresponds with where each house was located on the study map.

1.

A B C D E

2.

A B C D E

3.

A B C D E

Your answers for sample item 1 should be A, for 2, C, and for 3, B.

Your score on this test will be the number of buildings placed correctly minus a fraction of the number wrong. Therefore, it will not be to your advantage to guess unless you can eliminate some of the locations as definitely wrong.

There are two sections to each part of this test. The first section is a map which you will study for 4 minutes. The second is the test section and contains 12 structures to be located on the map. You will have 4 minutes to mark your answers. Mark A, B, C, D, or E for each building. In the test section, the buildings will be mixed up and not necessarily near the part of the map where you first saw them.

This test has two parts. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
Study this map so you can remember where each building is located.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP

Copyright © 1975 by Educational Testing Service. All rights reserved.
1.    
   A B C D E

2.    
   A B C D E

3.    
   A B C D E

4.    
   A B C D E

5.    
   A B C D E

6.    
   A B C D E

7.    
   A B C D E

8.    
   A B C D E

9.    
   A B C D E

10.   
   A B C D E

11.   
   A B C D E

12.   
   A B C D E

Mark an X on the letter below each building that shows where it was seen on the map.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Study this map so you can remember where each building is located.
TEST PAGE

Part 2 (4 minutes)

Mark an X on the letter below each building that shows where it was seen on the map.

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST

STOP.
MAP MEMORY — MV-3

This is a test of your ability to remember part of a map so that you can recognize it when you see it again.

Study the sample item below. You have 1 minute.

---

Now turn the page.
Which two of these four maps are the ones you saw on the study page? Mark the Y (yes) beneath the maps you studied. Mark the N (no) beneath the maps you have not seen before.

a. 

b. 

You should have marked "Y" under maps a and c, "N" under maps b and d.

Each of the two parts of this test will have two sections: (1) a page for you to study for 3 minutes and (2) a memory page which you will have 3 minutes to complete.

Your score will be the number of maps which you identify correctly minus the number which you identify incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea of whether or not you have studied the map.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
DO NOT GO ON TO PART 2 UNTIL ASKED TO DO SO.

STOP.

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Name

ADDITION TEST — N-1

This is a test to see how quickly and accurately you can add. It is not expected that you will finish all the problems in the time allowed.

You are to write your answers in the boxes below the problems. Several practice problems are given below with the first one correctly worked. Practice for speed on the others. This practice may help your score.

Practice Problems:

\[
\begin{array}{ccccccccccc}
4 & 7 & 12 & 84 & 7 & 34 & 17 & 45 & 31 & 80 \\
9 & 6 & 5 & 54 & 38 & 81 & 50 & 41 & 52 & 78 \\
1 & 15 & 67 & 72 & 80 & 51 & 74 & 89 & 19 & 15 \\
14 & & & & & & & & & \\
\end{array}
\]

Your score on this test will be the number of problems that are added correctly. Work as rapidly as you can without sacrificing accuracy.

You will have 2 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
TEST PAGE

Part 2 (4 minutes)

Mark an X on the letter below each building that shows where it was seen on the map.

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST

STOP.
Part 1 (2 minutes)

DO NOT TURN THE PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (2 minutes)

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
This is a test to see how quickly and accurately you can divide. It is not expected that you will finish all the problems in the time allowed.

You are to write your answers in the boxes below the problems. Several practice problems are given below with the first one correctly worked. Practice for speed on the others. This practice may help your score.

If you wish, you may use the space between the lines or at the bottom of the page for scratchwork. All of the problems come out even. There are no remainders.

Practice Problems:

\[
\begin{array}{cccc}
64 \div 4 & 150 \div 6 & 648 \div 8 & 238 \div 7 & 423 \div 9 \\
16 & & & & \\
546 \div 6 & 376 \div 8 & 153 \div 3 & 415 \div 5 & 117 \div 9 \\
\end{array}
\]

Your score on this test will be the number of problems that are divided correctly. Work as rapidly as you can without sacrificing accuracy.

You will have 2 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (2 minutes)

\[
\begin{array}{cccccccccccc}
95 \div 5 & 42 \div 6 & 120 \div 6 & 344 \div 4 & 62 \div 2 & 162 \div 3 & 679 \div 7 & 224 \div 8 & 235 \div 5 & 99 \div 9 \\
\hline
316 \div 4 & 56 \div 8 & 126 \div 9 & 567 \div 7 & 672 \div 8 & 175 \div 5 & 81 \div 3 & 70 \div 2 & 132 \div 4 & 122 \div 2 \\
\hline
168 \div 7 & 132 \div 4 & 195 \div 5 & 294 \div 7 & 69 \div 3 & 96 \div 3 & 228 \div 6 & 378 \div 9 & 105 \div 5 & 240 \div 8 \\
\hline
414 \div 6 & 270 \div 5 & 328 \div 4 & 156 \div 3 & 378 \div 6 & 588 \div 6 & 86 \div 2 & 396 \div 9 & 792 \div 8 & 231 \div 3 \\
\hline
74 \div 2 & 164 \div 4 & 152 \div 8 & 232 \div 8 & 148 \div 4 & 159 \div 3 & 450 \div 5 & 576 \div 9 & 312 \div 4 & 480 \div 6 \\
\hline
249 \div 3 & 168 \div 2 & 248 \div 8 & 729 \div 9 & 158 \div 2 & 182 \div 7 & 873 \div 9 & 240 \div 4 & 532 \div 7 & 192 \div 2
\end{array}
\]

DO NOT TURN THE PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (2 minutes)

\[
\begin{array}{cccccccccccc}
330 \div 6 & 92 \div 2 & 268 \div 4 & 594 \div 9 & 288 \div 6 & 295 \div 5 & 343 \div 7 & 150 \div 2 & 728 \div 8 & 440 \div 5 \\
\hline \\
272 \div 4 & 171 \div 3 & 568 \div 8 & 54 \div 3 & 372 \div 6 & 518 \div 7 & 368 \div 4 & 305 \div 5 & 665 \div 7 & 356 \div 4 \\
\hline \\
350 \div 5 & 522 \div 9 & 350 \div 7 & 680 \div 8 & 146 \div 2 & 536 \div 8 & 459 \div 9 & 744 \div 8 & 658 \div 7 & 516 \div 6 \\
\hline \\
234 \div 6 & 711 \div 3 & 624 \div 4 & 882 \div 9 & 175 \div 5 & 413 \div 7 & 624 \div 2 & 576 \div 4 & 846 \div 3 & 352 \div 8 \\
\hline \\
735 \div 7 & 608 \div 2 & 752 \div 8 & 430 \div 5 & 369 \div 3 & 644 \div 7 & 396 \div 9 & 612 \div 6 & 912 \div 8 & 738 \div 6 \\
\hline \\
620 \div 5 & 656 \div 8 & 812 \div 4 & 126 \div 6 & 630 \div 3 & 294 \div 7 & 108 \div 9 & 376 \div 8 & 780 \div 6 & 315 \div 7 \\
\end{array}
\]

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
SUBTRACTION AND MULTIPLICATION TEST — N-3

This is a test to see how quickly and accurately you can subtract and multiply. It is not expected that you will finish all the problems in the time allowed.

You are to write your answers in the boxes below the problems. Several practice problems are given below with the first one correctly worked. Practice for speed on the others. This practice may help your score.

Practice Problems:

Subtract:

\[
\begin{array}{cccccccc}
98 & 40 & 37 & 84 & 81 & 76 & 59 & 90 & 46 & 56 \\
\hline
23 & & & & & & & & & \\
\end{array}
\]

Multiply:

\[
\begin{array}{cccccccc}
86 & 67 & 30 & 81 & 42 & 37 & 81 & 86 & 43 & 69 \\
x 6 & x 4 & x 3 & x 8 & x 5 & x 8 & x 4 & x 3 & x 6 & x 7 \\
\hline
516 & & & & & & & & & \\
\end{array}
\]

Your score on this test will be the number of problems solved correctly. Work as rapidly as you can without sacrificing accuracy. Be sure that you are using the correct process; check the sign for each row.

You will have 2 minutes for each of the two parts of this test. Each part has one page with 60 items. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 1 (2 minutes)

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[Image of a grid with numbers]

DO NOT TURN THE PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (2 minutes)

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DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.

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ADDITION AND SUBTRACTION CORRECTION — N-4

This will try out your ability and speed at adding and subtracting 2-digit numbers. You may use this sheet for scratch paper, but you will probably move along faster if you solve the problems in your head, because they are not very hard. There will be more items than you will be able to finish.

For each item, two numbers are given to be added or subtracted according to the sign between them (+ or -). In all cases an answer is suggested. If the suggested answer is correct, make an X on the letter "C" for correct. If the suggested answer is not correct, make an X on the letter "I" for incorrect.

Sample problems:

1. 11 + 23 = 34 C I
2. 20 - 17 = 3 C I
3. 35 - 10 = 20 C I

You would mark C (correct) for problems 1 and 2, because 11 added to 23 is 34, and 20 minus 17 is 3. For problem 3 you would mark the I (incorrect), because 35 minus 10 is 25, not 20.

Your score on this test will be the number of items marked correctly minus the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea about the correct answer.

You will have 2 minutes for each of the two parts of this test. Each part has one page with 60 items. When you finish Part 1, STOP. Please do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Check whether these additions or subtractions are Correct (C) or Incorrect (I).

1. 10 + 10 = 20  C  I
2. 10 + 27 = 27  C  I
3. 12 + 13 = 25  C  I
4. 17 - 15 = 2   C  I
5. 15 + 15 = 25  C  I
6. 30 - 10 = 10  C  I
7. 25 - 15 = 10  C  I
8. 21 - 10 = 21  C  I
9. 14 + 17 = 31  C  I
10. 21 + 21 = 42 C  I
11. 32 - 11 = 21 C  I
12. 16 + 11 = 25 C  I
13. 19 + 11 = 30 C  I
14. 19 - 13 = 7  C  I
15. 23 - 21 = 4  C  I
16. 17 + 12 = 27 C  I
17. 20 + 18 = 38 C  I
18. 26 + 11 = 37 C  I
19. 24 - 17 = 41 C  I
20. 31 - 11 = 20 C  I
21. 49 - 27 = 22 C  I
22. 28 - 19 = 47 C  I
23. 18 + 25 = 43 C  I
24. 16 + 19 = 35 C  I
25. 22 - 15 = 8  C  I
26. 18 + 31 = 39 C  I
27. 12 + 29 = 41 C  I
28. 27 - 15 = 22 C  I
29. 39 - 15 = 14 C  I
30. 33 - 17 = 16 C  I
31. 17 + 22 = 39 C  I
32. 23 - 15 = 8  C  I
33. 23 + 15 = 28 C  I
34. 22 + 29 = 41 C  I
35. 17 + 18 = 35 C  I
36. 19 - 12 = 7  C  I
37. 26 + 18 = 42 C  I
38. 31 - 27 = 6  C  I
39. 25 + 17 = 42 C  I
40. 31 - 13 = 44 C  I
41. 36 - 15 = 21 C  I
42. 23 + 19 = 44 C  I
43. 29 + 17 = 47 C  I
44. 28 - 17 = 11 C  I
45. 22 + 12 = 32 C  I
46. 28 + 16 = 44 C  I
47. 19 - 13 = 32 C  I
48. 18 + 13 = 31 C  I
49. 22 + 22 = 42 C  I
50. 19 - 14 = 5  C  I
51. 29 - 25 = 4  C  I
52. 21 - 13 = 6  C  I
53. 27 + 13 = 40 C  I
54. 28 + 19 = 47 C  I
55. 31 - 19 = 10 C  I
56. 23 - 11 = 34 C  I
57. 12 + 23 = 33 C  I
58. 22 - 17 = 5  C  I
59. 34 - 15 = 9  C  I
60. 35 - 22 = 13 C  I

DO NOT TURN THE PAGE UNTIL ASKED TO DO SO.  

STOP.
### Part 2 (2 minutes)

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**DO NOT GO BACK TO PART 1 AND**

**DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.**

**STOP.**
Part 2 (2 minutes)

Check whether these additions or subtractions are Correct (C) or Incorrect (I).

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DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.

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FINDING A’S TEST — P-1

This is a test of your speed in finding the letter "a" in words. Your task is to put a line through any such word. Listed below are five columns of words. Each column has five words containing the letter "a". The first two columns have already been marked correctly. Now, on the other three columns, practice for speed in putting a line through the words with an "a".

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Remember, in each column there are five words containing the letter "a".

Your score on this test will be the number of words marked correctly. Work as quickly as you can without sacrificing accuracy.

You will have 2 minutes for each of the two parts of this test. Each part has four pages. When you have finished Part 1 (pages 2 to 5), STOP. Please do not go on to Part 2 until you are asked to do so.

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exert    turn    bluff  wretch  frolic
believe  throw  short  taught  bonds
source   protect beach  slight  recite
devote   defeat keeper  curved  pulse
labor    nerve  cement  pretty  swampeserve  trim bulletin  behind  crust
hopeful  pulley  stumble  certain  shelter
penny   fortune  improper  shrink  choose
learn    thistle poverty  promise  part
screen   collar  courage  impulse  using
purse    esteem  bouquet  current  folded
sketch   shell  stencil  dismiss  ceiling
quietly  broken  purpose  broader  surprise
mischief  feather  heartily  neglect  butcher
revolt   clever  question  conceit  plowing
flying   floor  receive  blunder  shingle
precious summit lessen  winter  trunk
similar  benefit  towel  swallow  scheme
sullen   listless  past  bending  lumber
grocery  inquire  rugged  conquer  between
pottery  definite  weight  praise  describe
tumble  chicken  truck  design  distinct
throb    ticket  prompt  tinsel  merchant
spoil    posture  region  union  offering
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pledge   formal  mental  follow  think
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circle   become  field  sponge  relief
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bound   courtesy  geese  policy  flour
flood    pushing  likely  needle  flour
bruise  story  custom  persist  erect
scene    gulf  title  verse  spend
office   plume public  honor  whole

GO ON TO THE NEXT PAGE.
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This is a test to find out how quickly you can compare two numbers and decide whether or not they are the same. If the numbers are the same, go on to the next pair, making no mark on the page. If the numbers are not the same, put an X on the line between them. Several examples are given below with the first few marked correctly. Practice for speed on the others.

659 ___ 659       7343801 ___ 7343801
73845 X 73855      18824 ___ 18824
1624 ___ 1624      705216831 ___ 795216831
438 X 436          971 ___ 971
4321459 ___ 4814259 446014721 ___ 446014721
658331 ___ 656331   5173869 ___ 5172869
11653 ___ 11652     6430017 ___ 6430017
617439428 ___ 617439428 518198045 ___ 518168045
1860439 ___ 1860439 55179 ___ 55097
90776105 ___ 90716105 65216067 ___ 65216057

Your score will be the number marked correctly minus the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea whether or not the numbers are the same.

You will have 1 1/2 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (1 1/2 minutes)

Make an X on the line between the numbers that are not the same.

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Do not go on to the next page until asked to do so.

STOP.
Make an X on the line between the numbers that are not the same.

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Do not go back to Part 1 and do not go on to any other test until asked to do so.

STOP.
IDENTICAL PICTURES TEST -- P-3

How fast can you match a given object? This is a test of your ability to pick the correct object quickly. At the left of each row is an object. To the right are five test objects, one of which matches the object at the left. Look at the example below:

![Example images]

The third test object has been marked by blackening the space below it, because it is the same as the object at the left.

Now practice on the problems below. Mark them as fast as you can:

![Practice problems]

Your score on this test will be the number of objects marked correctly minus a fraction of the number marked incorrectly. Work as quickly as you can without sacrificing accuracy.

You will have 1 1/2 minutes for each of the two parts of this test. Each part has two pages. Be sure to do both pages if you have time. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
ARITHMETIC APTITUDE TEST – RG-1

In this test you will be asked to solve some problems in arithmetic. Work each problem and put an x on the number in front of the answer that you choose.

Example:

How many candy mints can you buy for 50 cents at the rate of 2 for 5 cents?

1 - 10
2 - 20
3 - 25
4 - 100
5 - 125

The correct answer to this problem is 20. Therefore, you should have marked an x through the number 2 to indicate the correct answer.

Your score on this test will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 10 minutes for each of the two parts of this test. Each part has 5 pages with 15 items. Be sure to do all the pages in each part if you have time. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (10 minutes)

1. One day Mrs. Martinez worked 3½ hours in the morning, took a half hour off for lunch, and worked 4½ hours in the afternoon. If she began work at 8:30 A.M., at what time did she finish?
   
   1 - 4:30  
   2 - 5:00  
   3 - 5:30  
   4 - 6:00  
   5 - 6:30

2. In value, seven $5-bills equal how many quarters?

   1 - 28  
   2 - 35  
   3 - 56  
   4 - 70  
   5 - 140

3. Approximately 32,400 people live in a city that is 3 miles long and 2 miles wide. What is the average (arithmetic mean) number of people living in each square mile?

   1 - 5,400  
   2 - 6,100  
   3 - 6,480  
   4 - 8,100  
   5 - 10,800

GO ON TO THE NEXT PAGE.
4. The Wang family used 420 kilowatt-hours of electricity during a certain month. The charge for electricity was 7 cents per kilowatt-hour for the first 100 hours and 6 cents per hour for each additional kilowatt-hour. What was their electric bill for the month?

1 - $17.40
2 - $19.20
3 - $25.20
4 - $26.20
5 - $29.40

5. If the price of a certain canned soup is reduced from 2 cans for $1.00 to 3 cans for $1.20, how much is saved on the purchase of 9 cans?

1 - 36 cents
2 - 45 cents
3 - 60 cents
4 - 72 cents
5 - 90 cents

6. The sum of two consecutive number is 47. What is the larger number?

1 - 23
2 - 24
3 - 25
4 - 26
5 - 27

GO ON TO THE NEXT PAGE.
7. In a record snowstorm 24.3 inches of snow fell at the rate of about 0.9 inches per hour. For how many hours did the storm last?

1 - 2.7
2 - 21.67
3 - 27
4 - 33.6
5 - 39

8. If a grocery store buys a crate of 360 eggs for $18.00, how much per dozen are they paying?

1 - 36 cents
2 - 45 cents
3 - 54 cents
4 - 60 cents
5 - 72 cents

9. How much would it cost to ride 3½ miles in a taxicab, if the rate is $1.40 for the first quarter mile and $.40 for each additional quarter mile?

1 - $2.50
2 - $3.50
3 - $5.60
4 - $6.60
5 - $8.00

GO ON TO THE NEXT PAGE.
Part 1 (continued)

10. Al, Bill and Carl accounted for \( \frac{2}{5} \) of the points scored by the basketball team. Al scored 6/40 of these points, which was 2/3 of what Bill scored. What fraction of the points did Carl score?

   1 - 1/8
   2 - 1/4
   3 - 3/8
   4 - 5/8
   5 - 3/4

11. A sporting goods store ordered 90 pairs of skates costing $20 per pair. After placing the order, they discovered that with an order of 100 or more pairs there would have been a 15% discount. How much less would they have paid for 100 pairs of skates than they paid for 90 pairs?

   1 - $ 50.00
   2 - $100.00
   3 - $150.00
   4 - $175.00
   5 - $200.00

12. Jane bought 1 1/8 yards of material and used 6/10 of a yard of this material to make curtains for her kitchen window. How much material remained when she was finished?

   1 - 1/4 yard
   2 - 3/8 yard
   3 - 21/40 yard
   4 - 43/80 yard
   5 - 5/8 yard

GO ON TO THE NEXT PAGE.
Part I (continued)

13. A wholesale book supplier buys copies of a certain paperback book at $4.80 per dozen and sells them to book dealers at the rate of 18 for $9.00. How many books must be sold to make a profit of $50.00?

   1 - 100
   2 - 200
   3 - 300
   4 - 400
   5 - 500

14. A store selling furniture for 80% of the list price was selling a sofa for $560. What was the list price of the sofa?

   1 - $665
   2 - $690
   3 - $700
   4 - $740
   5 - $790

15. Gloria and Donald start to cycle toward each other from cities 125 miles apart. If Gloria averages 14 miles an hour and Donald averages 11 miles per hour, in how many hours will they meet?

   1 - 5
   2 - 10
   3 - 12.5
   4 - 20
   5 - 25

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.   STOP.
Part 2 (10 minutes)

16. Millie weighed 125 pounds. After she had gained 4\frac{1}{2} pounds, lost 6 pounds, and gained 2\frac{1}{2} pounds, how many pounds did she weigh?
   
   1 - 124
   2 - 125
   3 - 126
   4 - 127
   5 - 128

17. If 3 pounds of coffee costs $10.80, at the same rate, what would \frac{1}{2} pound cost?
   
   1 - $1.80
   2 - $1.90
   3 - $1.95
   4 - $2.00
   5 - $2.10

18. Joe attended school for a total of 1,620 days. What part of a 12-year course did he complete, if 180 days were counted as a school year?
   
   1 - 1/3
   2 - 1/2
   3 - 5/8
   4 - 2/3
   5 - 3/4

GO ON TO THE NEXT PAGE.
Part 2 (continued)

19. The Williams family drove 116 miles in 4 hours. At that rate how many hours would it take them to travel 203 miles?

1 - 5½
2 - 6
3 - 6½
4 - 7
5 - 7½

20. In general, brass is made of two parts copper to one part zinc. How many pounds of zinc are needed to produce 45 pounds of brass?

1 - 12½
2 - 15
3 - 20
4 - 22½
5 - 30

21. Three women own a small business with a capital value of $21,000. If Jane owns 7 shares, Barbara owns 3 shares, and Carla owns 5 shares, how much of the capital value belongs to Jane?

1 - $1,400
2 - $3,000
3 - $4,200
4 - $5,250
5 - $9,800

GO ON TO THE NEXT PAGE.
22. How many minutes are there between quarter of eleven and half past two o’clock of the same day?

1 - 225
2 - 250
3 - 275
4 - 300
5 - 325

23. A certain door-to-door vacuum cleaner salesperson is paid $117.25 per week plus a commission of 3% of the amount by which the total sales for the week exceed $275. If the sales for one week totaled $700, what were the salesperson’s total earnings that week?

1 - $125.50
2 - $130.00
3 - $141.77
4 - $146.50
5 - $151.00

24. Jane is 4 years old and her brother is three times as old. When Jane is 11, how old will her brother be?

1 - 17
2 - 18
3 - 19
4 - 24
5 - 33

GO ON TO THE NEXT PAGE.
Part 2 (continued)

25. Mr. Fernandez built a vacation cottage 6 years ago for $78,000. Each year the value of the cottage has decreased 3% of its original cost. What is the cottage worth today?

1 - $13,028.18
2 - $14,040.00
3 - $31,980.00
4 - $63,960.00
5 - $64,971.82

26. A factory had to lay off 20% of its employees. If 50 employees were laid off, how many people had been working in the factory?

1 - 125
2 - 250
3 - 300
4 - 355
5 - 400

27. Two people were building a brick wall. One laid 8 bricks per minute and the other laid 5 bricks per minute. By the time that the first person had laid a total of 240 bricks, how many had the second person laid?

1 - 80
2 - 100
3 - 150
4 - 175
5 - 200

GO ON TO THE NEXT PAGE.
28. A board 24 feet long is to be cut into 2 pieces so that the shorter piece is 1/3 as long as the longer piece. What is the length, in feet, of the shorter piece?

1 - 4  
2 - 6  
3 - 10  
4 - 16  
5 - 18

29. Betty raised 25 heads of cabbage averaging 8 pounds each. She spent $10.00 for plants and $7.00 for fertilizer. What was her profit if she sold them at $0.50 a pound?

1 - $ 56.00  
2 - $ 60.00  
3 - $ 70.00  
4 - $ 83.00  
5 - $100.00

30. A grocer bought 17 dozen pears for $22.95. If 3 dozen spoiled, at what price per dozen must the grocer sell the remaining pears to make a profit equal to 3/5 of the total cost?

1 - $0.98  
2 - $1.35  
3 - $2.16  
4 - $2.62  
5 - $2.94

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.
MATHEMATICS APTITUDE TEST -- RG-2

In this test you will be asked to solve some problems in mathematics. Solve each problem and put an x through the number in front of the answer that you select.

Example

How many candy mints can you buy for 50 cents at the rate of 2 for 5 cents?

1 - 10
2 - 20
3 - 25
4 - 100
5 - 125

The correct answer to this problem is 20. Therefore, you should have marked an x through the number 2 to indicate the correct answer.

Your score on this test will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 10 Minutes for each of the two parts of this test. Each part has 5 pages with 15 items. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (10 minutes)

1. One cake recipe calls for 1½ cups of sugar and a second recipe calls for 2 cups of sugar. In making 8 cakes, how many fewer cups of sugar would be used with the first recipe than with the second?

   1 - 2
   2 - 2½
   3 - 3
   4 - 3½
   5 - 4

2. If coal costs $150.00 per ton, and the cost of 7½ tons of coal is shared by 90 co-op apartment owners, what is each member's share?

   1 - $12.50
   2 - $13.50
   3 - $14.00
   4 - $14.30
   5 - $15.75

3. A swimming pool with a capacity of 5000 gallons is 1/4 full of water. How many hours will it take a pipe supplying water at the rate of 10 gallons per minute to finish filling the pool?

   1 - 2 1/12
   2 - 6 1/4
   3 - 8 1/3
   4 - 37 1/2
   5 - 50

GO ON TO NEXT PAGE.
4. Joan's watch gains 4 minutes a day. If she set it correctly at noon on Monday, what time would her watch read at 6:00 A.M. on Friday of the same week?

1 - 6:13  
2 - 6:14  
3 - 6:15  
4 - 6:16  
5 - 6:17

5. Mr. Williams has rented a car. The rate is $3.00 per hour plus 20 cents for each mile driven, but there is a minimum charge of $32.00. If he drives a total of 40 miles, how many hours can he keep the car without paying more than the $32.00 minimum charge?

1 - 2 1/4  
2 - 4  
3 - 6 1/4  
4 - 8  
5 - 10

6. When Jim was 8 years old, he received an allowance of $2.00 per week. If his weekly allowance was increased by $1.80 each year, how much was he receiving each week when he was 16?

1 - $15.60  
2 - $15.75  
3 - $16.00  
4 - $16.10  
5 - $16.40

GO ON TO THE NEXT PAGE.
Part 1 (continued)

7. What is the largest sum that can be thrown with 11 dice, if no number appears more than three times

1 - 26
2 - 51
3 - 66
4 - 84
5 - 122

8. How many seedlings must be planted to obtain 1,300 trees if only 65% of the seedlings can be expected to survive?

1 - 1,755
2 - 1,800
3 - 2,000
4 - 2,145
5 - 3,750

9. A college student takes a part-time job which pays $94.00 per week. Out of this she pays 24% in taxes, $10.00 for gasoline in her car and $12.00 per week for lunches. How much money does she have left at the end of the week after having paid for her taxes, for the gasoline, and for the lunches?

1 - $49.44
2 - $66.16
3 - $69.74
4 - $72.00
5 - $91.74

GO ON TO THE NEXT PAGE.
Part 1 (continued)

10. Barbara spent $3/8$ of her monthly allowance on a new inner tube for her bicycle and $1/4$ of the remainder for a new bicycle bell. Approximately what percent of her allowance did she have left?

1. 47%
2. 53%
3. 58%
4. 60%
5. 67%

11. If Scott walks at a constant rate of 6 feet per second, how many miles can he walk in one hour? (5,280 feet = 1 mile)

1. 0.6
2. 3.0
3. 4.1
4. 8.4
5. 14.9

12. Ellie receives $480 simple annual interest on an investment of $6,000. If the interest rate remains the same, how much simple annual interest will she receive from a $16,000 investment?

1. $640
2. $760
3. $800
4. $1,080
5. $1,280

GO ON TO THE NEXT PAGE.
Part 1 (continued)

13. Berta traveled by car, train, and bus. She drove 4 miles and took a train 4 times as far as she had driven plus ½ as far as she traveled by bus. By bus she traveled as far as she had driven plus ½ as far as she had traveled by train. How many miles did she travel all together?

1 - 16  
2 - 20  
3 - 24  
4 - 44  
5 - 52

14. After Mike spent $6.00 of his savings for a new plane kit and one-half of the remainder for school supplies he had $2.50 left. How much money did he have originally?

1 - $ 8.50  
2 - $10.00  
3 - $11.00  
4 - $13.50  
5 - $14.50

15. Juan takes 4 days to do a certain job, and Sam takes 7 days to do the same job. If Juan worked on the job for 1 day, how many days did it take Sam to finish it by himself?

1 - 1 3/4  
2 - 2  
3 - 4 1/2  
4 - 4 3/4  
5 - 5 1/4

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (10 minutes)

16. The cost of 700 29-cent stamps is how much more than the cost of 200-23-cent stamps?

   1 - $30.00
   2 - $54.00
   3 - $84.00
   4 - $157.00
   5 - $203.00

17. If lemons sell at 3 for 60 cents, how much will 1 1/2 dozen lemons cost?

   1 - $3.00
   2 - $3.40
   3 - $3.60
   4 - $4.20
   5 - $4.60

18. The ratio of children’s books to adult books in a certain public library is 2 to 8. If they want to keep the same ratio, how many children’s books should be ordered when 1,000 books for adults are ordered?

   1 - 150
   2 - 200
   3 - 250
   4 - 300
   5 - 350

GO ON TO THE NEXT PAGE.
19. Sue and Jane played 45 games of tic-tac-toe. Twelve games ended in a tie, and Sue won 1/3 of the rest. How many games did Jane win?

1 - 8
2 - 11
3 - 15
4 - 18
5 - 22

20. Bill has been saving money for a new bicycle. Each time he deposits money in his savings account, his father deposits twice the amount that Bill did. If the account now has a balance of $36, how much did Bill contribute?

1 - $12
2 - $15
3 - $18
4 - $24
5 - $30

21. If a nut on a bolt is advanced 3/4 inch when it is turned for 6 complete rotations, how many inches will 28 complete rotations advance it?

1 - 2
2 - 3
3 - 3½
4 - 4½
5 - 4 2/3

GO ON TO THE NEXT PAGE.
Part 2 (continued)

22. John takes 5 steps to walk the same distance for which his little brother requires 8 steps to walk. If John's step is 2 feet long, how long, in inches, is his brother's step?

   1 - 12
   2 - 15
   3 - 18
   4 - 20
   5 - 28

23. Brenda sold her tennis racket for $20.00 which was 80% of the original cost. For how much should she have sold it to make a 10% profit?

   1 - $24.00
   2 - $27.50
   3 - $30.00
   4 - $31.75
   5 - $35.00

24. Mr. Cardenas needed 15.5 cubic yards of concrete to lay a sidewalk. He ordered 10% extra material to allow for waste and rounded his order to the nearest whole number. If ready-mixed concrete costs $12 per cubic yard, how much did the concrete cost?

   1 - $120
   2 - $155
   3 - $175
   4 - $192
   5 - $204

GO ON TO THE NEXT PAGE.
25. A snowfall of 12 inches will produce about 1 inch of water when it melts; a volume of water one foot square by one inch weighs 5 pounds. About how many pounds will 4 inches of snow on a flat roof 30x40 feet weigh?

1 - 2,000
2 - 3,200
3 - 4,800
4 - 18,000
5 - 24,000

26. Three tractors and their operators can do as much work as 75 farm workers with no tractors. How many farm workers would be replaced by 10 tractors and their operators?

1 - 240
2 - 250
3 - 504
4 - 525
5 - 750

27. After Ms. Chang bought a used car for $40 less than 3/8 of her savings; $90 less than 2/3 of her savings remained. How much money did she have originally in her savings?

1 - $ 446
2 - $1,950
3 - $2,250
4 - $3,120
5 - $3,570

GO ON TO THE NEXT PAGE.
Part 1 (10 minutes)

1. One cake recipe calls for 1½ cups of sugar and a second recipe calls for 2 cups of sugar. In making 8 cakes, how many fewer cups of sugar would be used with the first recipe than with the second?
   
   1 - 2
   2 - 2½
   3 - 3
   4 - 3½
   5 - 4

2. If coal costs $150.00 per ton, and the cost of 7½ tons of coal is shared by 90 co-op apartment owners, what is each member's share?
   
   1 - $12.50
   2 - $13.50
   3 - $14.00
   4 - $14.30
   5 - $15.75

3. A swimming pool with a capacity of 5000 gallons is 1/4 full of water. How many hours will it take a pipe supplying water at the rate of 10 gallons per minute to finish filling the pool?
   
   1 - 2 1/12
   2 - 6 1/4
   3 - 8 1/3
   4 - 37 1/2
   5 - 50

GO ON TO NEXT PAGE.
28. A small company sold shares of stock. During the first week 20 people each bought $125 worth of stock, 50 each bought $150 worth, and 10 each bought $200 worth. What was the average dollar value of each of these 80 purchases?

1 - $140
2 - $150
3 - $450
4 - $1,200
5 - $4,000

29. John and Ray ran a race in which Ray was given a head-start of 15 yards. John ran 4 yards for every 3 yards that Ray ran. If John won the race by 20 yards, how many yards long was the course?

1 - 80
2 - 100
3 - 120
4 - 140
5 - 160

30. A machine operator can complete a certain job in 7 hours. Working with a second operator the job can be completed in 4 hours. How many hours would it take the second operator, working alone, to do a job of this size?

1 - 5 1/2
2 - 6 3/4
3 - 9 1/3
4 - 11 3/8
5 - 12 1/2

DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.
NECESSARY ARITHMETIC OPERATIONS TEST -- RG-3

This test consists of problems in mathematics. However, instead of solving the problems and finding an answer, your task will be merely to indicate which arithmetic operations could be used, if you solved the problems. Put an x through the number in front of the option that you select.

Example I
If a man earns $5.75 an hour, how many hours should he work each day in order to make an average of $46.00 per day?

1 - subtract
2 - divide
3 - add
4 - multiply

In order to solve the problem you should divide $46.00 by $5.75; therefore, you should have put an x through 2.

Example II
Chairs priced at $40 each are being sold in lots of 4 at 85% of the original price. How much would 4 chairs cost?

1 - divide and add
2 - multiply and multiply
3 - subtract and divide
4 - multiply and divide

One way to solve the problem would be to multiply $40 by .85 and then multiply this product by 4; therefore, you should have put an x through number 2. (Although some problems may be solved in more than one way, as with Example II, only the operations for one of these ways will be given among the options).

When 2 operations are given, they are always given in the order in which they should be performed.

Your score on this test will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 5 minutes for each of the two parts of this test. Each part has 5 pages with 15 items. Be sure to do all the pages in each part if you have time. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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Part 1 (5 minutes)

1. There are 4 quarts in a gallon and 4 cups in a quart. How many cups are there in a gallon?
   
   1 - add
   2 - subtract
   3 - multiply
   4 - divide

2. An electrical planer is set to remove .02 of an inch each time a piece of wood is passed through it. If a board is put through 7 times, how much wood will have been removed?
   
   1 - multiply
   2 - subtract
   3 - divide
   4 - add

3. There are 54 children at a summer camp. If there are 33 boys attending the camp, how many campers are girls?
   
   1 - add
   2 - multiply
   3 - subtract
   4 - divide

GO ON TO THE NEXT PAGE.
Part 1 (continued)

4. A man wants to seed a lawn around his new home. His lot is 120 feet by 90 feet (10,800 sq. feet). His house is centered on the lot and occupies 2,785 square feet. What is the greatest number of square feet of ground that could possibly be put into lawn?

1 - add
2 - divide
3 - multiply
4 - subtract

5. A wholesale meat dealer sells sirloin steak for $3.19 per pound and chuck steak for $1.89 per pound. One day the meat dealer sold 76 pounds of each. How much money was taken in?

1 - add and divide
2 - add and multiply
3 - multiply and subtract
4 - divide and divide

6. A cyclist in an international bicycle race covered an average of 9 miles every 20 minutes. If she maintained the same average speed, how long did it take her to cycle the remaining 84 miles of the race?

1 - divide and multiply
2 - subtract and divide
3 - add and subtract
4 - divide and add

GO ON TO THE NEXT PAGE.
Part 1 (continued)

7. A grocer sells oranges for $1.50 a dozen. The oranges cost 75 cents a dozen. How much profit is there from each orange?

1 - subtract and multiply
2 - divide and subtract
3 - add and divide
4 - subtract and divide

8. A boy works in a store after school for a total of 10 hours a week. He also works 8 hours on Saturdays. How much is he being paid per hour, if he makes $72.00 per week?

1 - multiply and subtract
2 - add and divide
3 - divide and subtract
4 - add and multiply

9. A college student takes a part-time job which pays $65.00 per week. After withholding and other taxes she is left with 76% of her salary, and each week she spends a total of $6.00 on lunches and bus fares. How much money does she make from her job each week after the taxes, lunches, and bus fares have been paid?

1 - divide and subtract
2 - subtract and multiply
3 - add and divide
4 - multiply and subtract

GO ON TO THE NEXT PAGE.
Part 1 (continued)

10. A rectangular underground reservoir is 15 feet deep and contains 2,000,000 gallons of water, when it is full. Spring rains filled the reservoir, but a summer drought caused the water level to drop 8 feet. How many gallons of water were consumed during the drought?

1 - subtract and divide  
2 - add and subtract  
3 - divide and multiply  
4 - subtract and multiply

11. A store sells hamburger at $1.50 per pound. How much hamburger could Jim serve to each of 5 people, if he could only afford to spend $4.00 for the meat?

1 - divide and divide  
2 - multiply and add  
3 - subtract and multiply  
4 - divide and multiply

12. A sweater marked $40 was sold for $29.95 during a sale. What was the percent reduction?

1 - divide and add  
2 - subtract and divide  
3 - multiply and subtract  
4 - add and divide

GO ON TO THE NEXT PAGE.
Part 1 (continued)

13. At the beginning of a month, a car rental organization rented 37 cars. During the month, 32 of these cars were returned. How many new rentals had been made if at the end of the month, there was a total of 43 cars rented?

1 - subtract and divide
2 - subtract and subtract
3 - add and subtract
4 - multiply and add

14. As a result of selling 1,000 shares of stock at $75.00 per share, the assets of a certain corporation doubled. What were the corporation's total assets after the stock had been sold?

1 - multiply and divide
2 - add and multiply
3 - add and subtract
4 - multiply and multiply

15. The Hernandez family generally squeeze 1½ oranges for a glass of orange juice. The average cost of the oranges they bought during one year was $0.20 per orange. What did it cost them for the 827 glasses of juice that they drank during the year?

1 - multiply and subtract
2 - add and divide
3 - multiply and multiply
4 - divide and multiply

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO. STOP.
Part 2 (5 minutes)

16. If chocolate bars are sold by the dozen at the cost of $6.00, how much does each bar cost?
   1 - multiply
   2 - divide
   3 - add
   4 - subtract

17. If a woman can weave one small rug in three days, what is the least number of days that she would need to complete 6 of these rugs?
   1 - add
   2 - subtract
   3 - multiply
   4 - divide

18. A book club is giving its members a discount of $2.00 on each book. If the members buy a total of 1,721 books in a certain month, how much is the total discount for that month?
   1 - divide
   2 - multiply
   3 - subtract
   4 - add

GO ON TO THE NEXT PAGE.
19. If 2 inches are added to the length of a rectangle, its area is increased by $\frac{1}{2}$ sq. inch. What is the height of the rectangle?

1 - divide
2 - add
3 - multiply
4 - subtract

20. Elena needed to drive the 250 miles from New York City to Boston, Massachusetts. If she left New York City at 7:30 A.M. and arrived in Boston at 12:30 P.M., what was her average speed in miles per hour?

1 - add and subtract
2 - divide and multiply
3 - multiply and add
4 - subtract and divide

21. A portable color television set can be purchased with cash for $340, or it can be purchased on the installment plan for $22 a month for 18 months. How much more does the television set cost on the installment plan?

1 - multiply and add
2 - add and divide
3 - subtract and divide
4 - multiply and subtract

TO ON TO THE NEXT PAGE.
28. A small company sold shares of stock. During the first week 20 people each bought $125 worth of stock, 50 each bought $150 worth, and 10 each bought $200 worth. What was the average dollar value of each of these 80 purchases?

1 - $ 140
2 - $ 150
3 - $ 450
4 - $1,200
5 - $4,000

29. John and Ray ran a race in which Ray was given a head-start of 15 yards. John ran 4 yards for every 3 yards that Ray ran. If John won the race by 20 yards, how many yards long was the course?

1 - 80
2 - 100
3 - 120
4 - 140
5 - 160

30. A machine operator can complete a certain job in 7 hours. Working with a second operator the job can be completed in 4 hours. How many hours would it take the second operator, working alone, to do a job of this size?

1 - 5 1/2
2 - 6 3/4
3 - 9 1/3
4 - 11 3/8
5 - 12 1/2

DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.

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22. A newsstand buys newspapers for 15 cents each and sells them for 25 cents each. How many newspapers must be sold to make a profit of $8.00 per day?

1 - subtract and divide
2 - multiply and subtract
3 - divide and multiply
4 - add and divide

23. At the first of the year, a store’s inventory showed goods worth $31,250. During February the store purchased merchandise worth $29,834. In March a fire completely destroyed the store. The owner claimed a merchandise loss of $47,420. How much merchandise had been sold before the fire occurred?

1 - multiply and subtract
2 - subtract and add
3 - multiply and add
4 - add and subtract

24. A clothing store took in $93,752 in cash from one year’s sales. At the end of the year there was also $7,952 outstanding in uncollected accounts. If the store expects to collect 95% of these accounts, how much will it eventually take in for the year’s sales?

1 - subtract and multiply
2 - divide and add
3 - subtract and divide
4 - multiply and add

GO ON TO THE NEXT PAGE.
Part 2 (continued)

25. A topographical map on which 1 inch equals 50 miles shows that a point 1 inch from the seacoast is 1,500 feet above sea level. What is the average number of feet that the terrain must climb every 5 miles in order to reach that height?

1 - multiply and subtract
2 - divide and divide
3 - add and divide
4 - multiply and multiply

26. A farm family have their house and barn insured for $152,000. The yearly premium rate is $2.07 per $100. How much does this insurance cost each year?

1 - divide and add
2 - add and multiply
3 - divide and multiply
4 - subtract and divide

27. Jane is eight years old and has been given an allowance of $3.00 per week. Each year she will get a raise of $2.00 per week. How much will her weekly allowance be 10 years from now?

1 - multiply and add
2 - subtract and divide
3 - divide and subtract
4 - add and multiply

GO ON TO THE NEXT PAGE.
28. Luis owns a power boat which uses 54 gallons of gasoline every 6 hours when it is cruising a 1/4 throttle. If the same boat uses 20 gallons an hour when it is running at 3/4 throttle, how many fewer gallons are used per hour at 1/4 than at 3/4 throttle?

1 - multiply and multiply
2 - add and divide
3 - divide and subtract
4 - subtract and add

29. At present Mrs. Gonzalez receives an annual interest of $42 from a $910 investment. She wants to increase her investment so that she will get $437 interest annually. What is the total amount that she must have invested at the same rate of interest?

1 - divide and divide
2 - subtract and divide
3 - multiply and subtract
4 - add and multiply

30. A motorist spent $31.20 for gasoline in the first 4 days of a 20 day trip. At this rate what will his gasoline expenditure be for the entire trip?

1 - multiply and add
2 - divide and multiply
3 - add and divide
4 - subtract and multiply

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
NONSENSE SYLLOGISMS TEST - RL-1

This is a test of your ability to tell whether the conclusion drawn from certain statements is correct or incorrect. Although all of the statements are really nonsense, you are to assume that the first two statements in each problem are correct. The conclusion drawn from them may or may not show good reasoning. You are to think only about the reasoning.

If the conclusion drawn from the statements shows good reasoning, put an X on the letter G. If the conclusion drawn from the statements shows poor reasoning, put an X on the letter P.

Now try the practice problems given below. The first two syllogisms have been correctly marked.

1) All trees are fish. All fish are horses. Therefore all trees are horses.  \( \checkmark \)  P
2) All trees are fish. All fish are horses. Therefore all horses are trees.  G \( \checkmark \)
3) Some swimming pools are mountains. All mountains like cats. Therefore all swimming pools like cats.  G  P
4) All swimming pools are mountains. All mountains like cats. Therefore all swimming pools like cats.  G  P
5) All elephants can fly. All giants are elephants. Therefore all giants can fly.  G  P
6) Some carrots are sports cars. Some sports cars play the piano. Therefore some carrots play the piano.  G  P
7) No two flowers look exactly the same. Roses and tulips look exactly the same. Therefore roses and tulips are not two flowers.  G  P

The answers to the other five problems are as follows: 3 is P; 4 is G; 5 is G; 6 is P; 7 is G.

Your score on this test will be the number marked correctly minus the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea whether the reasoning is good or bad.

You will have 4 minutes for each of the two parts of this test. Each part has 1 page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (4 minutes)

Mark the G if the conclusion shows good reasoning. Mark the P if it is poor reasoning.

1. All birds have purple tails. All cats are birds. Therefore all cats have purple tails. 
   G  P

2. No singer is a pogo stick. All pogo sticks are movie stars. Therefore no singer is a movie star. 
   G  P

3. All cars have sails. Some swimming pools are cars. Therefore some swimming pools have sails. 
   G  P

4. No chipmunks are clowns. Some mushrooms are chipmunks. Therefore some mushrooms are not clowns. 
   G  P

5. No skunks have green toes. All skunks are pigs. Therefore no pig has green toes. 
   G  P

6. All horses have wings. No turtle has wings. Therefore no turtle is a horse. 
   G  P

7. No hummingbirds fly. Some tractors fly. Therefore some tractors are not hummingbirds. 
   G  P

8. All apes are houseflies. Some houseflies are not snails. Therefore some apes are not snails. 
   G  P

9. Some dogs like to sing. All dogs are snowdrifts. Therefore some snowdrifts like to sing. 
   G  P

10. All doctors are sea horses. Some doctors are tornadoes. Therefore some tornadoes are sea horses. 
    G  P

11. Some people who like Alice do not like Robert. Everyone who likes Sue likes Alice. Therefore some people who like Robert do not like Sue. 
    G  P

12. All trains are coal mines. Nothing above 5,000 feet is a train. Therefore no coal mine is above 5,000 feet. 
    G  P

13. Some men are purple. Everything which is purple is a horse. Therefore some horses are men. 
    G  P

14. Some dogs are seals. Some seals bark. Therefore some dogs bark. 
    G  P

15. All elephants are pink. This animal is pink Therefore this animal is an elephant. 
    G  P
Part 2 (4 minutes)

Mark the G if the conclusion shows good reasoning. Mark the P if it is poor reasoning.

16. No one with a pink nose can be president. All men have pink noses. Therefore no man can be president. G P

17. All alligators are art collectors. Some art collectors live in caves. Therefore some alligators live in caves. G P

18. No cats are electrified. All ghosts are electrified. Therefore no ghost is a cat. G P

19. All birds are snakes. No bird is left-handed. Therefore nothing that is left-handed is a snake. G P

20. All lions are lavender. Some cowards are not lavender. Therefore some cowards are not lions. G P

21. All ice skates are totem poles. No totem pole snores. Therefore nothing that snores is an ice skate. G P

22. Some birds are pink. All hurricanes are pink. Therefore some birds are hurricanes. G P

23. All monkeys are pineapples. All pineapples have wings and all birds have a tail and wings. Therefore all monkeys have a tail. G P

24. No onions are parsnips. Some parsnips are tangerines. Therefore some tangerines are not onions. G P

25. Some kettles are giraffes. All zebras are kettles. Therefore some giraffes are zebras. G P

26. All dogs are ink bottles. Some ink bottles are squirrels. Therefore some squirrels are dogs. G P

27. Some people in our town are not famous. Everyone in our town is rich. Therefore some rich people are not famous. G P

28. No one who has green hair is a teenager. Some people who have green hair drink milk. Therefore some people who drink milk are not teenagers. G P

29. Los Angeles has fewer people than Detroit. Detroit has more people than East Overshoe. Therefore East Overshoe has more people than Los Angeles. G P

30. Some soldiers who were in the Civil War used green peaches for gunpowder. This soldier uses green peaches for gunpowder. Therefore he must have been in the Civil War. G P

DO NOT GO BACK TO PART 1, AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.
DIAGRAMMING RELATIONSHIPS -- RL-2

Sometimes the relationships among groups of things are best explained by diagrams that consist of overlapping circles. For example, if certain specific things, let's say lions, all belong to one larger class of things, let's say animals, you could diagram the situation as follows:

```
  animals
     |
  lions
```

In these diagrams we do not care about the relative sizes of any of the circles. That is, we are not suggesting here that a relatively large proportion of animals are lions, but we are indicating that all lions are animals. That is why the circle representing lions is drawn entirely within the circle that represents animals.

Now take the relationships among three groups of different things: birds, pets, and trees. These should be diagrammed as follows:

```
birds
     |
  pets
     |
  trees
```

This diagram shows that no trees are either pets or birds, but some birds are pets and some pets are birds.

Each item in this test names three groups of things. You are to choose from the lettered diagrams at the top of the test pages the one diagram that shows the correct relationships among the three groups of things in each item. Mark the letter of the diagram that you select.

Now try these sample items:

```
A  B  C  D  E
```

1. Animals, cats dogs
   A  B  C  D  E
2. Desks, furniture, pencils
   A  B  C  D  E

You should have marked A for 1. and E for 2.

Your score on this test will be the number of correct choices minus a fraction of the number of incorrect choices. Therefore, it will not be to your advantage to guess, unless you have at least some idea that will help you make a correct choice.

There are two parts to this test. Each part has one page with 15 items. You will have 4 minutes to complete each part. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.
Part 2 (4 minutes)

Mark the letter of the diagram that represents the relationships among the three groups in each item:

16. Shirts, things made of cotton, blue things
   A B C D E

17. Pines, trees, stones
   A B C D E

18. Gems, diamonds, hard things
   A B C D E

19. Trousers, shirts, hats
   A B C D E

20. Chairs, liquids, fishing rods
    A B C D E

21. Dogs, bears, white animals
    A B C D E

22. Things painted red, cars, bicycles
    A B C D E

23. Storms, bad weather conditions, hurricanes
    A B C D E

24. Potatoes, mice, animals
    A B C D E

25. Table ware, objects made of silver, knives
    A B C D E

26. Dogs, poodles, animals
    A B C D E

27. Trees, tomatoes, grains
    A B C D E

28. Shades of red, colors, sizes
    A B C D E

29. Pets, rabbits, white animals
    A B C D E

30. Baskets, hats, objects made of straw
    A B C D E

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

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Part 1 (4 minutes)

Mark the letter of the diagram that represents the relationships among the three groups in each item:

A B C D E

1. Dogs, mice, animals
   A B C D E

2. Trees, beets, root vegetables
   A B C D E

3. Mushrooms, berries, foods
   A B C D E

4. Buildings, cottages, white residences
   A B C D E

5. Sharp objects, eating utensils, rubber balls
   A B C D E

6. Partly yellow things, houses, pictures
   A B C D E

7. Chains, jewelry, beds
   A B C D E

8. Cars, Ford sedans, Chevrolet sedans
   A B C D E

9. Chickens, mackerel, fish
   A B C D E

10. Oaks, trees, maples
    A B C D E

11. Things that fly, insects, mice
    A B C D E

12. Doctors, golf players, people
    A B C D E

13. Red cars, Chryslers, motor vehicles
    A B C D E

14. Chairs, furniture, windows
    A B C D E

15. Things that fly, animals, vehicles for transportation
    A B C D E

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
INFERENCe TEST -- RL-3

In each item on this test you will be given one or two statements such as you might see in newspapers or popular magazines. The statements are followed by various conclusions which some people might draw from them. In each case, decide which conclusion can be drawn from the statement(s) without assuming anything in addition to the information given in the statement(s). There is only one correct conclusion.

Mark your answer by putting an x through the number in front of the conclusion that you select.

Consider the following sample item:

Bill, a member of the basketball team, is 6 feet, 2 inches tall and weighs 195 pounds. To qualify for the team, a person must be at least 5 feet, 10 inches tall.

1 - The larger a man is, the better basketball player he is.
2 - Basketball players are often underweight.
3 - Some players on the team are more than 6 feet tall.
4 - Bill is larger than the average man.
5 - The best basketball players come from the ranks of larger-than-average men.

Only conclusion 3 may be drawn without assuming that you have information or knowledge beyond what the statements give. The statements say nothing about how good different players are, nothing about whether they are underweight, and nothing about average or taller-than-average men.

Your score on this test will be the number marked correctly minus some fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 6 minutes for each of the two parts of this test. Each part has 10 items. Be sure to do all the items in each part if you have time. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (6 minutes)

1. More fatal accidents occur on highways after dark than during daylight hours.

1 - Darkness causes many accidents.
2 - A decrease in the volume of traffic tends to increase fatal accidents
3 - The chance of being killed in an automobile accident is lower during the day than it is at night.
4 - There are more fatal accidents after dark since drivers tend to be more tired.
5 - After dark, drivers frequently have accidents when they are blinded by the lights of oncoming cars.

2. One year a particular farmer’s stand of wheat yielded 40 bushels per acre.

1 - The farmer’s land is extremely fertile.
2 - The farmer has raised wheat on this land.
3 - The weather that year was unfavorable for growing wheat.
4 - Forty bushels per acre is a high yield.
5 - The field would be more suitable for some other crop.

3. The Pacific sea otter has the most beautiful and valuable fur in the world. Between 1725 and 1910 the otter was exploited commercially. In order to protect the otter from extinction, a 1910 international treaty outlawed otter hunting.

1 - Many people were greedy for the fur, and they competed bitterly for it.
2 - Today, no amount of money can purchase a coat of this valuable fur.
3 - The sea otters were pushed so close to extinction that even today any major disease or serious poaching could wipe them out.
4 - By the beginning of this century, the sea otter’s valuable fur had endangered its survival.
5 - Between 1725 and 1910 more sea otters were caught than any other fur-bearing animal.

GO ON TO THE NEXT PAGE.
Part 1 (continued)

4. Recently, it has been discovered that it is possible to rid an area of starlings if a recording of a starling in distress is played over loud-speakers for several evenings.

1 - One starling control technique uses recordings of starlings in distress.
2 - When starlings hear the distress calls of other starlings, they flee.
3 - Starlings have been multiplying and spreading at an appalling rate.
4 - The starling control problem could be solved if such recordings were used in enough places.
5 - The best way to control starlings is to frighten them.

5. The combined presence of carbon, water, and temperatures at which water is ordinarily a liquid are essential to life on earth.

1 - Life on the moon seems impossible since the moon has no water.
2 - The only possible components of living things are the elements known to us.
3 - All living things on earth use carbon.
4 - The conditions given in the statement are the only ones that are essential to life on earth.
5 - Living things are resistant to large temperature changes.

6. On the average, U.S. citizens are taller today than they were 100 years ago.

1 - Large numbers of tall people have immigrated over the past 100 years.
2 - The taller men have tended to marry the taller women.
3 - Tall parents have taller children than short parents have.
4 - People’s diets are better today.
5 - John is probably taller than his grandfather.

7. Life expectancy tables show that one out of each 100 people in the U.S. will live to be more than 95 years old and 54 will live to be at least 68.

1 - Less than half of the U.S. population is expected to die before the age of 68.
2 - Women have a greater life expectancy than men.
3 - Most men who live to be 68 will live to be 95.
4 - Living to be very old is the result of having a long life expectancy.
5 - The average person will not live to be 68.

GO ON TO THE NEXT PAGE.
8. Excavations at the ruins of the ancient temple called Stonehenge indicate the temple was built upon a site previously used by two other primitive civilizations. It has been estimated that the temple was constructed between 1500 and 1400 B.C.

1 - The two earlier civilizations used this temple as a common meeting place.
2 - Two earlier temples had been erected on the site.
3 - The first of the primitive civilizations used this site before 1400 B.C.
4 - Stonehenge was built by a primitive civilization known as the Druids.
5 - Parts of three temples previously on the site have been excavated.

9. The salt deposits at Natrium, which are at a depth of 6,800 feet, are in the same stratum that runs under Cleveland at a depth of 1,000 feet. This stratum gradually deepens in a southeasterly direction from Cleveland.

1 - Cleveland lies to the northwest of Natrium.
2 - One of the strata that run beneath both Natrium and Cleveland has salt deposits in it.
3 - Strata which have salt deposits are usually at a depth of at least 1,000 feet.
4 - There are salt deposits from Cleveland to Natrium.
5 - The altitude of Cleveland is probably greater than that of Natrium.

10. Most students who cheat on exams are caught.

1 - School authorities deal effectively with cheaters.
2 - Most students who cheat on exams are punished.
3 - Cheaters deserve to be punished.
4 - Cheaters are always found out.
5 - Some cheaters are never discovered

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
Part 2 (6 minutes)

11. Today it generally costs more to build a house than it cost to build one 20 years ago.

   1 - Building costs have risen during the past 20 years.
   2 - Most houses that people are building today are larger than the ones built 20 years ago.
   3 - Builders are using more expensive materials today.
   4 - People are equipping new houses with more expensive appliances.
   5 - The cost of living has risen over the past 20 years.

12. A few small mammals can hear frequencies up to and above 30,000 cycles per second. The bat is sensitive to frequencies as high as 100,000 cycles per second.

   1 - Most animals can hear frequencies which are as high as 30,000 cycles per second.
   2 - Bats are not very sensitive to low frequencies.
   3 - The smaller the animal, the higher the frequencies that it can hear.
   4 - Only the bat can hear frequencies above 30,000 cycles per second.
   5 - A bat's ears are more sensitive to high frequencies than are the ears of most small mammals.

13. All human beings fall into four main groups according to the composition of their blood: O, A, B, and AB. Knowledge of these blood types is important for transfusions.

   1 - The blood type is determined by genes.
   2 - Persons of group AB can receive blood from any other type.
   3 - Blood transfusions between members of the same group are always safe.
   4 - Certain percentages of all people belong to each type.
   5 - Blood from persons of group O can safely be given to persons of any group.

14. The painted vases, friezes, and other remains, which have been found in the ruins of the Minoan civilization of ancient Crete, give the impression of a happy, aristocratic culture.

   1 - Artistic achievement is the true measure of cultural development.
   2 - Something can be learned about a society from its works of art.
   3 - Written records are the most valuable source of human knowledge.
   4 - The Minoans did not know the art of writing.
   5 - An aristocratic society is not likely to be concerned with transmitting its culture to future generations.

GO ON TO THE NEXT PAGE.
15. A car, driven by a man who had been drinking, was involved in an accident with a speeding truck.
   1 - The accident probably could have been avoided if the man had not been drinking.
   2 - The cause of the accident might have been liquor or speed.
   3 - The car was probably travelling too fast as well.
   4 - Accidents are caused by reckless driving.
   5 - Trucks should not travel so fast.

16. A squid travels by jet propulsion. It takes in water by opening the muscular mantle which surrounds its body. Then the squid moves by squirting the water out through a powerful siphon.
   1 - The squid's jet propulsion enables it to overtake nearly anything that swims.
   2 - The squid's mantle has ten muscular tentacles.
   3 - The stream of water provides the thrust which moves the squid.
   4 - The squid is propelled backward through the water.
   5 - Most squid are active, highly mobile animals of aggressive habits.

17. The world's population is increasing at a tremendous rate but the supply of water is remaining constant.
   1 - The world is becoming more crowded.
   2 - The standard of living will decline in the future.
   3 - In the future, few people will have enough to drink.
   4 - In the future, it will be necessary to use less water for washing.
   5 - The population is becoming denser where there is a good supply of water.

18. Skin darkness and color depend on the concentration and color of pigment particles in pigment-bearing cells.
   1 - The number of pigment particles in a cell remains constant.
   2 - A tan results when new pigment particles are produced.
   3 - The cells with pigment are found in the deeper skin layers.
   4 - Pigment particles are not uniformly distributed in the body.
   5 - Some skin cells contain relatively few pigment particles.

GO ON TO THE NEXT PAGE.
Part 2 (continued)

19. During the Italian Renaissance most naturalists were artists as well.

1 - Leonardo de Vinci, a Renaissance artist, made many scientific observations
2 - During the Renaissance there was a very close connection between the development of biological sciences and painting.
3 - Renaissance artists and naturalists were trained both in analytic thought and realism.
4 - Most artists of the Renaissance also became naturalists since it was too difficult to make a living through art alone.
5 - The progress of natural science spurred Renaissance artists to increased activity so that the esthetic needs of society could be satisfied.

20. The wave lengths of light which are reflected from an object are what one sees and describes as the color of the object. The other visible wave lengths are absorbed by the object.

1 - Black is the total absorption of all colors.
2 - An infrared object reflects all wave lengths except the infrared wave lengths.
3 - A "red" object reflects only the "red" wave lengths.
4 - An object appears white when the wave lengths of the lightest colors are absorbed.
5 - A "white" object reflects all colors.

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
An archeologist who discovers small fragments of some ancient language must do a lot of reasoning to put the language together. This is a test of your ability to do this kind of reasoning.

For each different artificial language, three expressions in English and their translations into the language are given. From these you will need to figure out logically which syllable or which symbol in the language is equivalent to which English word. Note that the order of the symbols is consistent for any language, but may be different in each language and different from English. Therefore, do not assume that the first word in the artificial language refers to the first word in the English phrase, although sometimes it does.

Now try this sample item.

<table>
<thead>
<tr>
<th>English</th>
<th>Artificial Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>shaggy dog</td>
<td>* b</td>
</tr>
<tr>
<td>black cat</td>
<td>m</td>
</tr>
<tr>
<td>black, shaggy cat</td>
<td>* m</td>
</tr>
</tbody>
</table>

A. black dog =
1. * b
2. d
3. * d
4. m
5. * m

B. shaggy cat =
1. m
2. * m
3. d
4. * d
5. m

You should have marked 4. for sample A. and 2. for sample B.

Your score on this test will be the number of questions which you answer correctly minus a fraction of those which you answer incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea of which answer is correct.

You will have 8 minutes for each of the two parts of this test. Each part consists of 12 items on 2 pages. There will be three languages to decipher in each part. When you have finished Part 1, STOP. Do not go on to Part 2 until asked to do so.
Part 1 (8 minutes)

Language A:  
black sheep = dag kip  
white dog = tin bud  
black cow = dag stam  

1. white sheep =  2. black dog =  3. tin stam =  
1. dag kip  
2. tin kip  
3. stam dag  
4. bud tin  
5. tin bud  
1. stam dag  
2. dag kip  
3. tin kip  
4. kip bud  
5. dag bud  
1. white cow  
2. black sheep  
3. white sheep  
4. black dog  
5. black cow  

Language B:  
large deep lake = U  
wide shallow river = W  
small cold lake = u*  

4. large cold river =  5. u =  6. U* =  
1. W  
2. W*  
3. W*  
4. U*  
5. U  
1. wide shallow lake  
2. large cold lake  
3. small cold river  
4. small shallow lake  
5. large shallow lake  
1. large cold river  
2. small cold river  
3. large cold lake  
4. large shallow lake  
5. small deep lake
Language C:  

- two old green chairs = (VHO
- three old brown lamps = (NJB
- four new yellow chairs = )WHD

7. old green lamps =  
1. )WJ
2. VHB
3. (JO
4. (HB
5. NHB

8. three brown chairs =  
1. NHB
2. (WB
3. (NH
4. )HO
5. VJD

9. )WJ =  
1. three yellow lamps
2. four new lamps
3. new green lamps
4. two brown chairs
5. four old chairs

10. three new green lamps =  
1. (WHB
2. )NJO
3. )VJD
4. (VJD
5. )WHB

11. four old brown chairs =  
1. )NHO
2. )VJD
3. )VJD
4. )JVO
5. (WHB

12. (VJD =  
1. four new green chairs
2. two old yellow lamps
3. four new brown chairs
4. three new brown lamps
5. three new green chairs

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
Language D:  bad bird  = VⅠ
            good music = A*
            bad man  = VⅠ

13. good man =
    1. AI
    2. VI
    3. V*
    4. Al
    5. IV

14. bad music =
    1. VⅠ
    2. ⅠV
    3. AI
    4. V*
    5. Al

15. Al =
    1. bad music
    2. good music
    3. good bird
    4. bad bird
    5. good man

Language E: large red tomato  = mush gid kal
            large green melon  = wonk gid too
            small red pepper  = faf mel kal

16. large red melon =
    1. mush gid too
    2. wonk gid kal
    3. wonk too gid
    4. wonk gid too
    5. mush gid mel

17. small green pepper =
    1. faf gid too
    2. faf mel too
    3. faf gid kal
    4. kal gid faf
    5. kal faf gid

18. mush gid too =
    1. large red melon
    2. large red pepper
    3. small green pepper
    4. large green tomato
    5. large green pepper
Part 2 (continued)

Language F:

Two small square rooms = bif dren cue po
Three small round boxes = mit dren lob pop
Four large square cages = lat blet cue popo

19. 4 small cages =
   1. lat dren pop
   2. pop cue mit
   3. lat dren popo
   4. lat blet popo
   5. popo lob lat

20. Large square boxes =
   1. lat cue pop
   2. mit blet cue
   3. mit cue pop
   4. bif cue blet
   5. bif lob pop

21. Lat lob po =
   1. three square boxes
   2. two round rooms
   3. three round rooms
   4. three square cages
   5. two round cages

22. 2 small square boxes =
   1. lat dren cue pop
   2. pop cue dren lat
   3. bif lob blet pop
   4. mit dren cue po
   5. mit dren lob popo

23. 4 large round rooms =
   1. bif blet lob popo
   2. dren lat lob mit
   3. bif blet cue popo
   4. lat dren cue pop
   5. lat dren lob po

24. Lat blet lob pop =
   1. two large round rooms
   2. two small square rooms
   3. three large round cages
   4. three small square boxes
   5. four small round cages
This is a test of your ability to see differences in figures. Look at the 5 triangle-shaped cards drawn below.

All of these drawings are of the same card, which has been slid around into different positions on the page.

Now look at the 2 cards below:

These two cards are not alike. The first cannot be made to look like the second by sliding it around on the page. It would have to be flipped over or made differently.

Each problem in this test consists of one card on the left of a vertical line and eight cards on the right. You are to decide whether each of the eight cards on the right is the same as or different from the card at the left. Mark the box beside the S if it is the same as the one at the beginning of the row. Mark the box beside the D if it is different from the one at the beginning of the row.

Practice on the following rows. The first row has been correctly marked for you.

Your score on this test will be the number of items answered correctly minus the number answered incorrectly. Therefore, it will not be to your advantage to guess, unless you have some idea whether the card is the same or different. Work as quickly as you can without sacrificing accuracy.

You will have 3 minutes for each of the two parts of this test. Each part has 1 page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
Part 1 (3 minutes)

1. 

2. 

3. 

4. 

5. 

6. 

7. 

8. 

9. 

10. 

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.

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<p>| | | | | |</p>
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</tbody>
</table>

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.
CUBE COMPARISONS TEST -- S-2 (Rev.)

Wooden blocks such as children play with are often cubical with a different letter, number, or symbol on each of the six faces (top, bottom, four sides). Each problem in this test consists of drawings of pairs of cubes or blocks of this kind. Remember, there is a different design, number, or letter on each face of a given cube or block. Compare the two cubes in each pair below.

The first pair is marked D because they must be drawings of different cubes. If the left cube is turned so that the A is upright and facing you, the N would be to the left of the A and hidden, not to the right of the A as is shown on the right hand member of the pair. Thus, the drawings must be of different cubes.

The second pair is marked S because they could be drawings of the same cube. That is, if the A is turned on its side the X becomes hidden, the B is now on top, and the C (which was hidden) now appears. Thus the two drawings could be of the same cube.

Note: No letters, numbers, or symbols appear on more than one face of a given cube. Except for that, any letter, number or symbol can be on the hidden faces of a cube.

Work the three examples below.

The first pair immediately above should be marked D because the X cannot be at the peak of the A on the left hand drawing and at the base of the A on the right hand drawing. The second pair is "different" because P has its side next to G on the left hand cube but its top next to C on the right hand cube. The blocks in the third pair are the same, the J and K are just turned on their side, moving the 0 to the top.

Your score on this test will be the number marked correctly minus the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea which choice is correct. Work as quickly as you can without sacrificing accuracy.

You will have 3 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP.

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Part 2 (3 minutes)

22. B C
   D E
   S = D

23. X F
   H G
   S = D

24. + 0
   + 0
   S = D

25. J K L
   P Q R
   S = D

26. A M T
   N R
   S = D

27. B C U
   1 2
   S = D

28. 3 V
   4 A
   S = D

29. B W C
   D E
   S = D

30. E O 1
    F 0
    S = D

31. G X N
    J X
    S = D

32. Y K L
    Q P X
    S = D

33. R B C
    1 0
    S = D

34. + 2
   + 2
   S = D

35. O A 4
    5 A 0
    S = D

36. M B C
    D 3 E
    S = D

37. H T G
    F 2
    S = D

38. X I J
    K X
    S = D

39. O N 8
    Z 8
    S = D

40. L P Q R
    S = D

41. H L K
    B C
    S = D

42. D X E
    S = D

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.  STOP.
MAZE TRACING SPEED TEST — SS-1

This is a test of your ability to find a path through a maze quickly. You are to draw a pencil line through each maze without having to cross any printed lines.

Look at the two drawings below. In the left square a pencil line has been drawn to show the correct path from top to bottom. The square on the right shows an incorrect path. It is incorrect because the pencil line crosses a printed line.

![Correct Path](image1)

![Incorrect Path](image2)

Practice for speed on the squares below. Remember, you must make a pencil line through each square without having to cross a printed line.

![Additional Mazes](image3)

Your score on this test will be the number of squares through which a line has been correctly drawn. If you should become stuck in any square, you may skip to the following one. You should try to avoid making mistakes, but you will not be penalized for lifting your pencil, for retracing a path that leads to a dead end, or for accidentally crossing lines at the sides of the path being taken. Work as quickly as you can without sacrificing accuracy. On the test, follow the squares around the page the way that they are connected, starting at the top of the left-hand column.

You will have 3 minutes for each of the two parts of this test. Each part has 1 page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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CHOOSING A PATH -- SS-2

This is a test of your ability to choose a correct path from among several choices. In the picture below is a box with dots marked S and F. S is the starting point and F is the finish. You are to follow the line from S, through the circle at the top of the picture and back to F.

In the problems in this test there will be five such boxes. Only one box will have a line from the S, through the circle, and back to the F in the same box. Dots on the lines show the only places where connections can be made between lines. If lines meet or cross where there is no dot, there is no connection between the lines. Now try this example. Show which box has the line through the circle by blackening the space at the lower right of that box.

The first box is the one which has the line from S, through the circle, and back to F. The space lettered A has therefore been blackened.

Each diagram in the test has only one box which has a line through the circle and back to the F. Some lines are wrong because they lead to a dead end. Some lines are wrong because they come back to the box without going through the circle. Some lines are wrong because they lead to other boxes that do not have lines going through the circle.
Now try the next two practice examples.

For the first example you should have marked the space lettered D. For the second example the answer is B.

Your score on this test will be the number of problems marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong. Work as quickly as you can without sacrificing accuracy.

You will have 7 minutes for each of the two parts of this test. Each part has two pages. Be sure to do both pages in each part if you have time. When you have finished Part 1 (pages 3 and 4), STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
MAP PLANNING TEST — SS-3

This is a test of your ability to find the shortest route between two places as quickly as possible. The drawing below is a map of a city. The dark lines are streets. The circles are road-blocks, and you cannot pass at the places where there are circles. The numbered squares are buildings. You are to find the shortest route between two lettered points. The number on the building passed is your answer.

Rules:  1. The shortest route will always pass along the side of one and only one of the numbered buildings.

2. A building is not considered as having been passed if a route passes only a corner and not a side.

3. The same numbered building may be used on more than one route.

Look at the sample map below. Practice by finding the shortest route between the various points listed at the right of the map. The first problem has been marked correctly.

The shortest route from: passes building:

1. A to Z  
2. E to S  
3. P to J  
4. V to K  
5. O to F  
6. G to M  
7. D to Q  
8. F to T

The answers to the other practice problems are as follows:  2 passes 5; 3 passes 3; 4 passes 2; 5 passes 4; 6 passes 4; 7 passes 6; 8 passes 5.

Your score on this test will be the number of right answers. It will not be to your advantage to guess unless you have some idea which route is correct. Work as rapidly as you can without sacrificing accuracy.

You will have 3 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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Part 1 (3 minutes)

The shortest route from:  Passes building:
1. F to I
2. U to D
3. B to W
4. Z to E
5. C to K
6. X to L
7. Y to R
8. M to J
9. P to M
10. N to T

The shortest route from:  Passes building:
11. U to B
12. N to Q
13. S to X
14. Y to P
15. Y to G
16. F to L
17. A to E
18. K to D
19. Q to C
20. N to H

DO NOT GO ON TO THE NEXT PAGE UNTIL ASKED TO DO SO.

STOP.
VOCABULARY TEST I — V-1

This is a test of your knowledge of word meanings. Look at the sample below. One of the four numbered words has the same meaning or nearly the same meaning as the word at the left. Indicate your answer by writing, in the parentheses at the right, the number of the word that you select.

attempt 1-run 2-hate 3-try 4-stop . . . . ( )

The answer to the item is number 3; you should have a "3" written in the parentheses.

Your score will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 4 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
### Part 1 (4 minutes)

<table>
<thead>
<tr>
<th>Term</th>
<th>Synonyms</th>
</tr>
</thead>
<tbody>
<tr>
<td>airtight</td>
<td>1-firm 2-light 3-hermetically sealed</td>
</tr>
<tr>
<td>peddle</td>
<td>1-tattle 2-cheat 3-misrepresent 4-sell</td>
</tr>
<tr>
<td>raider</td>
<td>1-frontiersman 2-plunderer 3-murderer 4-cynic</td>
</tr>
<tr>
<td>energetically</td>
<td>1-inspiringly 2-skillfully 3-delightfully 4-vigorously</td>
</tr>
<tr>
<td>implicate</td>
<td>1-involve 2-remove 3-retaliate 4-exaggerate</td>
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<tr>
<td>gloaming</td>
<td>1-autumn 2-midnight 3-twilight 4-daybreak</td>
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<tr>
<td>legibleness</td>
<td>1-crookedness 2-amity 3-plainness 4-carelessness</td>
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<td>laceration</td>
<td>1-cut 2-oration 3-tumor 4-flogging</td>
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<tr>
<td>jollification</td>
<td>1-capitulation 2-merrymaking 3-emancipation 4-teasing</td>
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<td>willowy</td>
<td>1-lithe 2-windy 3-quiet 4-fickle</td>
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<td>feline</td>
<td>1-guileless 2-fabulous 3-equine 4-catlike</td>
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<td>dispiritedly</td>
<td>1-neglectfully 2-conspicuously 3-dishonorably 4-dejectedly</td>
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<tr>
<td>intricacy</td>
<td>1-delicacy 2-complexity 3-invisibility 4-hostility</td>
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<td>excerpt</td>
<td>1-accept 2-extract 3-curtail 4-deprive</td>
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<td>arrogance</td>
<td>1-contrariness 2-insubordination 3-haughtiness 4-vivacity</td>
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<td>gallivant</td>
<td>1-serenade 2-gad about 3-plunder 4-espouse</td>
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<td>sheik</td>
<td>1-priest 2-casque 3-shepherd 4-chief</td>
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<tr>
<td>exorbitance</td>
<td>1-excessiveness 2-dissidence 3-unanimity 4-gaiety</td>
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<td>Term</td>
<td>Synonyms</td>
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<td>chef</td>
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<td>milestone</td>
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<td>4-grindstone</td>
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<td>chowder</td>
<td>1-dog 2-chemical 3-pigment 4-stew</td>
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<td>emancipator</td>
<td>1-theorist 2-liberator 3-prophet 4-spy</td>
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<td>1-monitory 2-conservative 3-advisory 4-narrative</td>
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<td>emergence</td>
<td>1-laziness 2-identity 3-contrast</td>
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<td>4-coming forth</td>
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<td>sheepfold</td>
<td>1-blanket 2-warm coat 3-sheepren</td>
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<td>4-crooked stick</td>
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<td>ignoramus</td>
<td>1-monster 2-gossip 3-dandy 4-dunce</td>
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<td>calamitous</td>
<td>1-clamorous 2-discontented 3-disastrous</td>
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<td>4-uncouth</td>
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<td>furlough</td>
<td>1-leave of absence 2-garden 3-foot soldier</td>
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<td>4-timberland</td>
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<td>incubate</td>
<td>1-inform 2-anticipate 3-burn 4-brood</td>
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<td>1-hopelessness 2-continuousness</td>
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<td>1-morbid 2-cheery 3-blessed</td>
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<td>4-venturesome</td>
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<td>devitalize</td>
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<td>1-malignant 2-preparing 3-boisterous</td>
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<td>4-yearly</td>
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</tbody>
</table>

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
VOCABULARY TEST II — V-2

This is a test of your knowledge of word meanings. Look at the sample below. One of the five numbered words has the same meaning or nearly the same meaning as the word above the numbered words. Mark your answer by putting an X through the number in front of the word that you select.

jovial
1-refreshing
2-scare
3-thickset
4-wise
X-jolly

The answer to the sample item is number 5; therefore, an X has been put through number 5.

Your score will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 4 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (4 minutes)

1. handicraft
   1-cunning
   2-fast boat
   3-utility
   4-manual skill
   5-guild

2. resistant
   1-confusing
   2-conjunctive
   3-systematic
   4-assisting
   5-opposing

3. ejection
   1-restoration
   2-expulsion
   3-reformation
   4-bisection
   5-exposition

4. yawl
   1-tropical storm
   2-foghorn
   3-carouse
   4-sailboat
   5-turn

5. listless
   1-aggressive
   2-adaptable
   3-indifferent
   4-sorrowful
   5-ugly

6. acceptable
   1-affected
   2-suitable
   3-attractive
   4-genial
   5-noteworthy

7. unobservant
   1-analytic
   2-conclusive
   3- heedless
   4-uninformed
   5-timid

8. perambulator
   1-coffee pot
   2-drunkard
   3-baby carriage
   4-liar
   5-camel

9. masticate
   1-chew
   2-massage
   3-manufacture
   4-create
   5-pollute

10. poignancy
    1-paignoir
    2-gloominess
    3-keenness
    4-gluttony
    5-barony

11. salaam
    1-salivation
    2-salmon
    3-salutation
    4-ransom
    5-brigand

12. compatible
    1-abridged
    2-congenial
    3-compelling
    4-related
    5-combined

13. inclement
    1-balmy
    2-happy
    3-righteous
    4-severe
    5-apprehensive

14. access
    1-abundance
    2-evaluation
    3-approach
    4-extremes
    5-foes

15. blend
    1-disagreeable
    2-pale
    3-soothing
    4-empty
    5-musical

16. collusion
    1-nerve
    2-rest
    3-prayer
    4-conspiracy
    5-disguise

17. degrade
    1-lower in rank
    2-bend downward
    3-disagree
    4-sort
    5-uplift

18. evolve
    1-develop gradually
    2-spin
    3-end suddenly
    4-implicate
    5-inclue

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.
## Part 2 (4 minutes)

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<td>19. dreg</td>
<td>25. morbid</td>
<td>31. complacent</td>
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<td>1-pulled</td>
<td>1-moral</td>
<td>1-friendly</td>
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<td>2-worthless leftover</td>
<td>2-attractive</td>
<td>2-smug</td>
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<tr>
<td>3-wooden pin</td>
<td>3-grotesque</td>
<td>3-jealous</td>
</tr>
<tr>
<td>4-wheel spoke</td>
<td>4-caustic</td>
<td>4-angry</td>
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<td>5-liquid</td>
<td>5-mysterious</td>
<td>5-uncivil</td>
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<td>20. crescendo</td>
<td>26. malignant</td>
<td>32. archaeology</td>
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<td>1-repeat</td>
<td>1-deliberate</td>
<td>1-obscure language</td>
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<td>2-treble clef</td>
<td>2-superior</td>
<td>2-study of ancient cultures</td>
</tr>
<tr>
<td>3-decrease in time</td>
<td>3-delirious</td>
<td>3-architectural structure</td>
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<td>4-eighth note</td>
<td>4-malicious</td>
<td>4-lineage</td>
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<tr>
<td>5-increase in loudness</td>
<td>5-fragrant</td>
<td>5-study of rock formations</td>
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<tr>
<td>21. trilogy</td>
<td>27. hauteur</td>
<td>33. canvass</td>
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<tr>
<td>1-set of four</td>
<td>1-discordancy</td>
<td>1-crack</td>
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<tr>
<td>2-a pair</td>
<td>2-arrogance</td>
<td>2-flower</td>
</tr>
<tr>
<td>3-vibrations</td>
<td>3-languor</td>
<td>3-elect</td>
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<tr>
<td>4-interjections</td>
<td>4-ignorance</td>
<td>4-wild bird</td>
</tr>
<tr>
<td>5-set of three</td>
<td>5-utility</td>
<td>5-examine</td>
</tr>
<tr>
<td>22. budget</td>
<td>28. nihilism</td>
<td>34. correlate</td>
</tr>
<tr>
<td>1-civil government</td>
<td>1-psychology</td>
<td>1-ceremony of crowning</td>
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<td>2-capital punishment</td>
<td>2-optimism</td>
<td>2-relate closely</td>
</tr>
<tr>
<td>3-calendar</td>
<td>3-anarchism</td>
<td>3-distant relative</td>
</tr>
<tr>
<td>4-bulletin</td>
<td>4-biology</td>
<td>4-overweight</td>
</tr>
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<td>5-financial plan</td>
<td>5-chauvinism</td>
<td>5-group of soldiers</td>
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<td>23. gritty</td>
<td>29. insipid</td>
<td>35. edifice</td>
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<td>1-frigid</td>
<td>1-benign</td>
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<td>2-windy</td>
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<td>2-heir</td>
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<td>3-adhesive</td>
<td>3-poisonous</td>
<td>3-front</td>
</tr>
<tr>
<td>4-granular</td>
<td>4-colorless</td>
<td>4-large building</td>
</tr>
<tr>
<td>5-unwieldy</td>
<td>5-tasteless</td>
<td>5-learning</td>
</tr>
<tr>
<td>24. alignment</td>
<td>30. droll</td>
<td>36. flabby</td>
</tr>
<tr>
<td>1-formation</td>
<td>1-serious</td>
<td>1-lacking firmness</td>
</tr>
<tr>
<td>2-accusation</td>
<td>2-argument</td>
<td>2-giddy</td>
</tr>
<tr>
<td>3-emblem</td>
<td>3-dwarf</td>
<td>3-talkative</td>
</tr>
<tr>
<td>4-brightness</td>
<td>4-brogue</td>
<td>4-noisy and boastful</td>
</tr>
<tr>
<td>5-buoyant</td>
<td>5-laughable</td>
<td>5-affluent</td>
</tr>
</tbody>
</table>

**DO NOT GO BACK TO PART 1 AND**

**DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.**

STOP.
EXTENDED RANGE VOCABULARY TEST -- V-3

This is a test of your knowledge of word meanings. Look at the sample below. One of the five numbered words has the same meaning or nearly the same meaning as the word above the numbered words. Mark your answer by putting an X through the number in front of the word that you select.

jovial  
1-refreshing  
2-scare  
3-thickset  
4-wise  
X jolly

The answer to the sample item is number 5; therefore, an X has been put through number 5.

Your score will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 6 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

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VOCABULARY TEST I — V-1

This is a test of your knowledge of word meanings. Look at the sample below. One of the four numbered words has the same meaning or nearly the same meaning as the word at the left. Indicate your answer by writing, in the parentheses at the right, the number of the word that you select.

attempt 1-run 2-hate 3-try 4-stop .... ( )

The answer to the item is number 3; you should have a "3" written in the parentheses.

Your score will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 4 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1. (4 minutes)

1. airtight 1-firm 2-light 3-hermetically sealed
   4-plane sick

2. peddle 1-tattle 2-cheat 3-misrepresent 4-sell

3. raider 1-frontiersman 2-plunderer 3-murderer
   4-cynic

4. energetically 1-inspiringly 2-skillfully 3-delightfully
   4-vigorously

5. implicate 1-involve 2-remove 3-retaliate
   4-exaggerate

6. gloaming 1-autumn 2-midnight 3-twilight
   4-daybreak

7. legibleness 1-crookedness 2-amity 3-plainness
   4-carelessness

8. laceration 1-cut 2-oration 3-tumor 4-flogging

9. jollification 1-capitulation 2-merrymaking 3-emancipation
   4-teasing

10. willowy 1-lithe 2-windy 3-quiet 4-fickle

11. feline 1-guileless 2-fabulous 3-equine
    4-catlike

12. dispiritedly 1-neglectfully 2-conspicuously 3-dishonorably
    4-dejectedly

13. intricacy 1-delicacy 2-complexity 3-invisibility
    4-hostility

14. excerpt 1-accept 2-extract 3-curtail 4-deprive

15. arrogance 1-contrariness 2-insubordination
    3-haughtiness 4-vivacity

16. gallivant 1-serenade 2-gad about 3-plunder
    4-espouse

17. sheik 1-priest 2-casque 3-shepherd 4-chief

18. exorbitance 1-excessiveness 2-dissidence 3-unanimity
    4-gaiety

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.

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Part 2 (4 minutes)

19. chef  1-cheese  2-style  3-head cook  4-candle  .  ( )
20. milestone  1-marker  2-plant  3-soft music  4-grindstone  ..........  ( )
21. chowder  1-dog  2-chemical  3-pigment  4-stew  .  ( )
22. emancipator  1-theorist  2-liberator  3-prophet  4-spy  .  ( )
23. consultative  1-monitory  2-conservative  3-advisory  4-narrative  ..........  ( )
24. emergence  1-laziness  2-identity  3-contrast  4-coming forth  ..........  ( )
25. sheepfold  1-blanket  2-warm coat  3-sheeppen  4-crooked stick  ..........  ( )
26. ignoramus  1-monster  2-gossip  3-dandy  4-dunce  .  ( )
27. calamitous  1-clamorous  2-discontented  3-disastrous  4-uncouth  ..........  ( )
28. furlough  1-leave of absence  2-garden  3-foot soldier  4-timberland  ..........  ( )
29. incubate  1-inform  2-anticipate  3-burn  4-brood  .  ( )
30. incessantness  1-hopelessness  2-continuousness  3-inclination  4-rashness  ..........  ( )
31. blithesome  1-morbid  2-cheery  3-blessed  4-venturesome  ..........  ( )
32. devitalize  1-eat  2-deaden  3-soften  4-wave  ..........  ( )
33. exonerate  1-betray  2-transgress  3-exult  4-vindicate  ..........  ( )
34. decadence  1-decline  2-decision  3-color  4-joy  .  ( )
35. ungainly  1-cheap  2-stupid  3-clumsy  4-hazardous  .  ( )
36. pestilential  1-malignant  2-preparing  3-boisterous  4-yearly  ..........  ( )

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.

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### Part 1 (6 minutes)

<table>
<thead>
<tr>
<th>1. cottontail</th>
<th>7. evoke</th>
<th>13. placate</th>
<th>19. curtailment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-squirrel</td>
<td>1-wake up</td>
<td>1-rehabilitate</td>
<td>1-expense</td>
</tr>
<tr>
<td>2-poplar</td>
<td>2-surrender</td>
<td>2-plagiarize</td>
<td>2-abandonment</td>
</tr>
<tr>
<td>3-boa</td>
<td>3-reconnoiter</td>
<td>3-depradate</td>
<td>3-abridgment</td>
</tr>
<tr>
<td>4-marshy plant</td>
<td>4-transcend</td>
<td>4-apprise</td>
<td>4-improvement</td>
</tr>
<tr>
<td>5-rabbit</td>
<td>5-call forth</td>
<td>5-conciliate</td>
<td>5-forgery</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. marketable</th>
<th>8. unobtrusive</th>
<th>14. surcease</th>
<th>20. perversity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-partisan</td>
<td>1-unintelligent</td>
<td>1-enlightenment</td>
<td>1-adversity</td>
</tr>
<tr>
<td>2-jocular</td>
<td>2-epileptic</td>
<td>2-cessation</td>
<td>2-perviousness</td>
</tr>
<tr>
<td>3-marriageable</td>
<td>3-illogical</td>
<td>3-inattention</td>
<td>3-travesty</td>
</tr>
<tr>
<td>4-salable</td>
<td>4-lineal</td>
<td>4-censor</td>
<td>4-waywardness</td>
</tr>
<tr>
<td>5-essential</td>
<td>5-modest</td>
<td>5-substitution</td>
<td>5-gentility</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. boggy</th>
<th>9. terrain</th>
<th>15. apathetic</th>
<th>21. calumnious</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-afraid</td>
<td>1-ice cream</td>
<td>1-wandering</td>
<td>1-complimentary</td>
</tr>
<tr>
<td>2-false</td>
<td>2-final test</td>
<td>2-impassive</td>
<td>2-analogous</td>
</tr>
<tr>
<td>3-marshy</td>
<td>3-tractor</td>
<td>3-hateful</td>
<td>3-slanderous</td>
</tr>
<tr>
<td>4-dense</td>
<td>4-area of ground</td>
<td>4-prophetic</td>
<td>4-tempestuous</td>
</tr>
<tr>
<td>5-black</td>
<td>5-weight</td>
<td>5-overflowing</td>
<td>5-magnanimous</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. gruesomeness</th>
<th>10. capriciousness</th>
<th>16. paternoster</th>
<th>22. illiberality</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-blackness</td>
<td>1-stubbornness</td>
<td>1-paternalism</td>
<td>1-bigotry</td>
</tr>
<tr>
<td>2-falseness</td>
<td>2-courage</td>
<td>2-patricide</td>
<td>2-imbecility</td>
</tr>
<tr>
<td>3-vindictiveness</td>
<td>3-whimsicality</td>
<td>3-malediction</td>
<td>3-illegibility</td>
</tr>
<tr>
<td>4-drunkenness</td>
<td>4-amazement</td>
<td>4-benediction</td>
<td>4-cauterity</td>
</tr>
<tr>
<td>5-ghastliness</td>
<td>5-greediness</td>
<td>5-prayer</td>
<td>5-immaturity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. loathing</th>
<th>11. maelstrom</th>
<th>17. opalescence</th>
<th>23. clabber</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-diffidence</td>
<td>1-slander</td>
<td>1-opulence</td>
<td>1-rejoice</td>
</tr>
<tr>
<td>2-laziness</td>
<td>2-whirlpool</td>
<td>2-senescence</td>
<td>2-gossip</td>
</tr>
<tr>
<td>3-abhorrence</td>
<td>3-enmity</td>
<td>3-bankruptcy</td>
<td>3-curdle</td>
</tr>
<tr>
<td>4-cleverness</td>
<td>4-armor</td>
<td>4-iridescence</td>
<td>4-crow</td>
</tr>
<tr>
<td>5-comfort</td>
<td>5-majolica</td>
<td>5-assiduity</td>
<td>5-hobble</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. bantam</th>
<th>12. tentative</th>
<th>18. lush</th>
<th>24. sedulousness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-fowl</td>
<td>1-critical</td>
<td>1-stupid</td>
<td>1-diligence</td>
</tr>
<tr>
<td>2-ridicule</td>
<td>2-conclusive</td>
<td>2-luxurious</td>
<td>2-credulousness</td>
</tr>
<tr>
<td>3-cripple</td>
<td>3-authentic</td>
<td>3-hazy</td>
<td>3-seduction</td>
</tr>
<tr>
<td>4-vegetable</td>
<td>4-provisional</td>
<td>4-putrid</td>
<td>4-seduction</td>
</tr>
<tr>
<td>5-ensign</td>
<td>5-apprehensive</td>
<td>5-languishing</td>
<td>5-frankness</td>
</tr>
</tbody>
</table>
Part 2 (6 minutes)

25. shortcake
   1-condiment
   2-pastry
   3-fruit
   4-sweetmeat
   5-vegetable

31. demoniacal
   1-afool
   2-mythical
   3-thoughtful
   4-fiendish
   5-eccentric

37. corroboratory
   1-plausible
   2-anticipatory
   3-confirmatory
   4-explanatory
   5-esoteric

43. aggrandizement
   1-theft
   2-impeachment
   3-derision
   4-amazement
   5-enlargement

26. hardtack
   1-nail
   2-textile
   3-weapon
   4-wood
   5-biscuit

32. highroad
   1-mountain road
   2-right of way
   3-main road
   4-roadbed
   5-concrete road

38. figurine
   1-metaphor
   2-wine
   3-poem
   4-organ
   5-statue

44. effulgence
   1-prominence
   2-outline
   3-change
   4-radiance
   5-energy

27. commendable
   1-pleasurable
   2-charitable
   3-lucrative
   4-proscriptive
   5-laudable

33. befog
   1-dampen
   2-forget
   3-whip
   4-mystify
   5-belittle

39. rancorous
   1-malignant
   2-jubilant
   3-abashed
   4-inglorious
   5-careless

45. aphasia
   1-loss of speech
   2-drunkenness
   3-anemia
   4-loss of memory
   5-rash

28. nonchalant
   1-sarcastic
   2-discourteous
   3-noble
   4-unconcerned
   5-unsophisticated

34. platoon
   1-tableland
   2-bridge of boats
   3-body of soldiers
   4-commonplace
   5-frigate

40. inveteracy
   1-habitualness
   2-migration
   3-bravery
   4-covering
   5-hatefulness

46. panolied
   1-philosophical
   2-dressed in
   3-armor
   4-panting
   5-stavistic

29. coloration
   1-pigmentation
   2-alternation
   3-configuration
   4-prevention
   5-taint

35. dullard
   1-peon
   2-duck
   3-braggart
   4-thief
   5-dunce

41. choler
   1-anger
   2-chorister
   3-guard
   4-saliva
   5-refrigerator

47. sacrosanct
   1-sacrificial
   2-dormant
   3-inviolable
   4-superficial
   5-gullible

30. aridity
   1-bitterness
   2-surface
   3-sonority
   4-dryness
   5-torridity

36. momentously
   1-frivolously
   2-moderately
   3-weightily
   4-momentarily
   5-modishly

42. vacillation
   1-purification
   2-wavering
   3-expulsion
   4-tempting
   5-foolishness

48. prurience
   1-modesty
   2-sapience
   3-provender
   4-lust
   5-security

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
ADVANCED VOCABULARY TEST I — V-4

This is a test of your knowledge of word meanings. Look at the sample below. One of the five numbered words has the same meaning or nearly the same meaning as the word above the numbered words. Mark your answer by putting an X through the number in front of the word that you select.

jovial
1-refreshing
2-scare
3-thickset
4-wise
X-jolly

The answer to the sample item is number 5; therefore, an X has been put through number 5.

Your score will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 4 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (4 minutes)

1. mumble
   1-speak indistinctly
   2-complain
   3-handle awkwardly
   4-fall over something
   5-tear apart

2. perspire
   1-struggle
   2-sweat
   3-happen
   4-penetrate
   5-submit

3. gush
   1-giggle
   2-spout
   3-sprinkle
   4-hurry
   5-cry

4. massive
   1-strong and muscular
   2-thickly populated
   3-ugly and awkward
   4-huge and solid
   5-everlasting

5. feign
   1-pretend
   2-prefer
   3-wear
   4-be cautious
   5-surrender

6. unwary
   1-unusual
   2-deserted
   3-incautious
   4-sudden
   5-tireless

7. veer
   1-change direction
   2-hesitate
   3-catch sight of
   4-cover with a thin layer
   5-slide

8. orthodox
   1-conventional
   2-straight
   3-surgical
   4-right-angled
   5-religious

9. stripling
   1-stream
   2-narrow path
   3-engraving
   4-lad
   5-beginner

10. salubrious
    1-mirthful
    2-indecent
    3-salty
    4-mournful
    5-healthful

11. limpid
    1-lazy
    2-crippled
    3-clear
    4-hot
    5-slippery

12. procreate
    1-sketch
    2-inhabit
    3-imitate
    4-beget
    5-encourage

13. replete
    1-full
    2-elderly
    3-resentful
    4-discredited
    5-restful

14. frieze
    1-fringe of curls on the forehead
    2-statue
    3-ornamental band
    4-embroidery
    5-sherbet

15. treacle
    1-sewing machine
    2-framework
    3-leak
    4-apple butter
    5-molasses

16. ignominious
    1-inflammable
    2-elflike
    3-unintelligent
    4-disgraceful
    5-mysterious

17. abjure
    1-make certain
    2-arrest
    3-renounce
    4-abuse
    5-lose

18. duress
    1-period of time
    2-distaste
    3-courage
    4-hardness
    5-compulsion

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

STOP.

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Part 2 (4 minutes)

19. bayonet
   1-small tent
   2-basket
   3-helmet
   4-sharp weapon
   5-short gun

20. astound
   1-scold severely
   2-make angry
   3-surprise greatly
   4-drive out
   5-ascertain

21. contamination
   1-contradiction
   2-contempt
   3-warning
   4-pollution
   5-continuation

22. amplify
   1-electrify
   2-expand
   3-cut off
   4-signify
   5-supply

23. mural
   pertaining to
   1-growth
   2-manners
   3-the eyes
   4-war
   5-a wall

24. hale
   1-glad
   2-fortunate
   3-tall
   4-robust
   5-ready

25. meander
   1-marvel
   2-predict
   3-slope
   4-forget
   5-wind

26. burnish
   1-polish
   2-wave
   3-dye
   4-heat
   5-consume

27. duplicity
   1-extent
   2-double-dealing
   3-agreement
   4-cleverness
   5-overlapping

28. mundane
   1-worldly
   2-obstinate
   3-deafening
   4-servile
   5-penniless

29. deleterious
   1-injurious
   2-hysterical
   3-critical
   4-slow
   5-thinned out

30. nascent
   1-colorful
   2-broad
   3-unpleasant
   4-floating
   5-beginning

31. prolific
   1-freely reproductive
   2-prehistoric
   3-talented
   4-highly temperamental
   5-frivolous

32. paroxysm
   1-bleach
   2-disaster
   3-storm
   4-fit
   5-revolution

33. antipodal
   1-outmoded
   2-slanted
   3-melodious
   4-opposite
   5-four-footed

34. acrimony
   1-promptness
   2-boredom
   3-divorce
   4-stupidity
   5-bitterness

35. lissome
   1-lonely
   2-young
   3-dreamy
   4-supple
   5-dainty

36. succinct
   1-sudden
   2-concise
   3-prosperous
   4-literary
   5-cunning

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.

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ADVANCED VOCABULARY TEST II — V-5

This is a test of your knowledge of word meanings. Look at the sample below. One of the four numbered words has the same meaning or nearly the same meaning as the word at the left. Indicate your answer by writing, in the parentheses at the right, the number of the word that you select.

attempt 1-run 2-hate 3-try 4-stop . . . . ( )

The answer to the item is number 3; you should have a "3" written in the parentheses.

Your score will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 4 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
### Part 1 (4 minutes)

| 1. rancor       | 1-forbearance 2-ridicule 3-malice 4-bravery       |
| 2. raucous      | 1-empty 2-quiet 3-smooth 4-harsh                |
| 3. gargoyle     | 1-oil 2-medicine 3-carved waterspout 4-ugly building |
| 4. recrudescence| 1-purify 2-renew activity 3-lack refinement 4-crush |
| 5. specious     | 1-plausible, but not genuine 2-noteworthy 3-class or variety 4-roomy |
| 6. bauble       | 1-bubble 2-showy plaything 3-idle talk 4-confusion |
| 7. prolific     | 1-scarce 2-producing abundantly 3-reckless 4-speaking profanely |
| 8. opulent      | 1-party 2-wealthy 3-happy frame of mind 4-semiprecious stone |
| 9. coercion     | 1-conspiracy 2-strategy 3-restraint 4-attraction |
| 10. hiatus      | 1-animal 2-calamity 3-dread 4-gap                |
| 11. germane     | 1-microbe 2-contagious 3-relevant 4-different   |
| 12. perfunctory | 1-fundamental 2-formal 3-superficial 4-careful  |
| 13. diverge     | 1-reveal 2-chant 3-distract the attention of 4-differ or turn off from |
| 14. evoke       | 1-take away 2-anger 3-connect 4-bring out       |
| 15. pertinent    | 1-relevant 2-lying next to 3-necessary 4-bold   |
| 16. holocaust    | 1-entirety 2-destruction 3-saintly 4-price      |
| 17. piquant      | 1-mellow 2-fish 3-pungent 4-cloth               |
| 18. firmament    | 1-foundation 2-heavens 3-strong 4-glue          |

DO NOT TURN THE PAGE UNTIL ASKED TO DO SO

STOP.
19. bizarre 1-market 2-conventional 3-odd 4imaginative . . . . . . ( )
20. moral 1-ethical 2-esthetic 3-mental state 4-weak . . . . . . ( )
21. implacable 1-subdued 2-relieved 3-uncertain 4-relentless . . . ( )
22. paradox 1-ornamental box 2-question 3-infectious disease
4-statement that says two opposite things . . . . . . . . . . . ( )
23. bigot 1-foreigner 2-cynic 3-intolerant person 4-insect . ( )
24. sumptuous 1-luxurious 2-sweet 3-credulous 4-cheap . . . . . . ( )
25. tacit 1-tactful 2-elaborately developed
3-unspoken but implied 4-clever . . . . . . . . . . . . . . . . . . . ( )
26. harbinger 1-forerunner 2-well-tailored 3-fortuneteller 4-port ( )
27. panegyric 1-medicine 2-denunciation 3-sports event
4-laudation . . . . . . . . . . . . . . . . . . . . . . . . . ( )
28. cryptic 1-grave 2-escape 3-hidden 4-pretentious . . . . . . . ( )
29. descried 1-described 2-scolded 3-saw 4-denounced . . . . . . ( )
30. querulous 1-questioning 2-complaining 3-noisy 4-agresable . ( )
31. pecuniary 1-involving money 2-esthetic 3-trifling 4-unusual . ( )
32. carnage 1-flower 2-small eagle 3-slaughter 4-antique . . . . . ( )
33. subservient 1-arrogant 2-submissive 3-undermining 4-unnecessary ( )
34. trepidation 1-fear 2-watering 3-means of travel 4-surgery . . . ( )
35. delineate 1-limit 2-straighten 3-omit 4-d-pict . . . . . . . . . ( )
36. preponderance 1-statement 2-dominance 3-body of water
4-thoughtfulness . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ( )

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
This is a test of your ability to tell what pieces can be put together to make a certain figure. Each test page is divided into two columns. At the top of each column is a geometrical figure. Beneath each figure are several problems. Each problem consists of a row of five shaded pieces. Your task is to decide which of the five shaded pieces will make the complete figure when put together. Any number of shaded pieces, from two to five, may be used to make the complete figure. Each piece may be turned around to any position but it cannot be turned over. It may help you to sketch the way the pieces fit together. You may use any blank space for doing this. When you know which pieces make the complete figure, mark a plus (+) in the box under ones that are used and a minus (−) in the box under ones that are not used.

In Example A, below, the rectangle can be made from the first, third, fourth, and fifth pieces. A plus has been marked in the box under these places. The second piece is not needed to make the rectangle. A minus has been marked in the box under it. The rectangle drawn to the right of the problem shows one way in which the four pieces could be put together.

A.  

Now try to decide which pieces in Examples B and C will make the rectangle.

B.  

C.  

In Example B, the first, fourth, and fifth pieces are needed. You should have marked a plus under these three pieces and a minus under the other two pieces. In Example C, the second, third, and fifth pieces should be marked with a plus and the first and fourth with a minus.

Your score on this test will be the number marked correctly minus the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you have some idea whether or not the piece is correct.

You will have 8 minutes for each of the two parts of this test. Each part has 2 pages. When you have finished Part 1 (pages 2 and 3), STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 2 (continued)

37. 

38. 

39. 

40. 

41. 

42. 

43. 

44. 

45. 

46. 

47. 

48. 

DO NOT GO BACK TO PART 1, AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.

STOP.
PAPER FOLDING TEST — VZ-2

In this test you are to imagine the folding and unfolding of pieces of paper. In each problem in the test there are some figures drawn at the left of a vertical line and there are others drawn at the right of the line. The figures at the left represent a square piece of paper being folded, and the last of these figures has one or two small circles drawn on it to show where the paper has been punched. Each hole is punched through all the thicknesses of paper at that point. One of the five figures at the right of the vertical line shows where the holes will be when the paper is completely unfolded. You are to decide which one of these figures is correct and draw an X through that figure.

Now try the sample problem below. (In this problem only one hole was punched in the folded paper.)

A  B  C  D  E

The correct answer to the sample problem above is C and so it should have been marked with an X. The figures below show how the paper was folded and why C is the correct answer.

In these problems all of the folds that are made are shown in the figures at the left of the line, and the paper is not turned or moved in any way except to make the folds shown in the figures. Remember, the answer is the figure that shows the positions of the holes when the paper is completely unfolded.

Your score on this test will be the number marked correctly minus a fraction of the number marked incorrectly. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 3 minutes for each of the two parts of this test. Each part has 1 page. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
SURFACE DEVELOPMENT TEST — VZ-3

In this test you are to try to imagine or visualize how a piece of paper can be folded to form some kind of object. Look at the two drawings below. The drawing on the left is of a piece of paper which can be folded on the dotted lines to form the object drawn at the right. You are to imagine the folding and are to figure out which of the lettered edges on the object are the same as the numbered edges on the piece of paper at the left. Write the letters of the answers in the numbered spaces at the far right.

Now try the practice problem below. Numbers 1 and 4 are already correctly marked for you.

NOTE: The side of the flat piece marked with the X will always be the same as the side of the object marked with the X. Therefore, the paper must always be folded so that the X will be on the outside of the object.

In the above problem, if the side with edge 1 is folded around to form the back of the object, then edge 1 will be the same as edge H. If the side with edge 5 is folded back, then the side with edge 4 may be folded down so that edge 4 is the same as edge C. The other answers are as follows: 2 is B; 3 is G; and 5 is H. Notice that two of the answers can be the same.

Your score on this test will be the number of correct letters minus a fraction of the number of incorrect letters. Therefore, it will not be to your advantage to guess unless you are able to eliminate one or more of the answer choices as wrong.

You will have 6 minutes for each of the two parts of this test. Each part has 2 pages. When you have finished Part 1 (pages 2 and 3), STOP. Please do not go on to Part 2 until you are asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.

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Part 1 (6 minutes)

1. 

2. 

3. 

4. 

5. 

GO ON TO THE NEXT PAGE
DO NOT GO BACK TO PART 1, AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.  

STOP.

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TOOTHPICKS TEST -- XF-1

In this test you will be asked to make different patterns of squares outlined by toothpicks. You will be given a pattern of squares and asked to change it by removing some of the toothpicks. You can show which toothpicks are to be removed by drawing a short line through them. Look at the example:

Take away 2 toothpicks □□
Leave 2 squares

To show this: □□ You mark like this: □

Whenever you make a pattern it must have complete squares with no extra toothpicks left over. The example below shows a correct solution and an incorrect solution in which one of the toothpicks is not a part of any square.

Take away 2 toothpicks □□
Leave 2 squares

Correct Incorrect

In some of the problems it is possible to make both large and small squares or to make overlapping squares.

You will be asked to think of several different solutions for each item in this test. In some problems you will be told both how many toothpicks to remove and how many squares to leave; some problems tell you only how many squares to leave. Each answer that you give for an item must be a new pattern, based on a different rule or principle, and not just the same answer turned around or turned over.

Look at the examples below:

Take away 4 toothpicks □□□
Leave 4 squares

□□□ The first two examples are correct but both use the same rule -- cross out the toothpicks from opposite corners. Only one of these answers would count.
The third example uses a different rule so it would receive credit.

Your score on this test will be the number of correct solutions that use different rules. Each problem has at least 4 possible different solutions.

You will have 6 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

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Part 1 (6 minutes)

Make as many different solutions as possible, up to 5, for each item. Use a different rule for each solution.

1. Take away 4 toothpicks
   Leave 6 squares
   ![Diagram of solutions]

2. Take away 4 toothpicks
   Leave 5 squares
   ![Diagram of solutions]

3. Take away 6 toothpicks
   Leave 6 squares
   ![Diagram of solutions]

4. Take away 4 toothpicks
   Leave 5 squares
   ![Diagram of solutions]

5. Take away 5 toothpicks
   Leave 6 squares
   ![Diagram of solutions]

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Make as many different solutions as possible, up to 5, for each item. Use a different rule for each solution.

6. Take away 4 toothpicks
   Leave 4 squares

   \[
   \begin{array}{cccc}
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \end{array}
   \]

7. Take away 4 toothpicks
   Leave 7 squares

   \[
   \begin{array}{cccc}
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \end{array}
   \]

8. Take away 3 toothpicks
   Leave 5 squares

   \[
   \begin{array}{cccc}
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \end{array}
   \]

9. Take away 6 toothpicks
   Leave 4 squares

   \[
   \begin{array}{cccc}
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \square & \square & \square & \square \\
   \end{array}
   \]

10. Take away 4 toothpicks
    Leave 5 squares

    \[
    \begin{array}{cccc}
    \square & \square & \square & \square \\
    \square & \square & \square & \square \\
    \square & \square & \square & \square \\
    \square & \square & \square & \square \\
    \square & \square & \square & \square \\
    \end{array}
    \]

DO NOT GO BACK TO PART 1 AND

DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
PLANNING PATTERNS -- XF-2

In this test you will be asked to plan how certain figures can be fitted onto a group of dots. You will be asked to think of as many different ways as possible to arrange the figures.

Look at the example below. Three possible solutions to the problem are shown at the right.

Make 2 T's
Each T must touch exactly 4 dots

In order to receive credit for a different pattern, you must place the figures in different positions relative to each other. Drawings which show the figures in the same relative positions, as if the pattern were turned around or turned over, will not receive credit. In the example above, the first and last solutions are the same only turned. They could not both receive credit. The second solution is different and correct so it would be credited. The figures cannot reach outside the group of dots, touch each other, or overlap; that is to say that two letters cannot use the same dot or have their lines cross each other. The letters may be different in shape from each other as long as they are clearly recognizable.

Now try this practice item:

Make 3 L's
Each L must touch exactly 3 dots

Your score on this test will be the number of different solutions which you draw using different rules.

You will have 2 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
Part 1 (2 minutes)

Draw the letters requested in as many different positions, relative to each other, as you can.

1. Make 2 V's. Each V must touch exactly 3 dots.


DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
Part 2 (2 minutes)

Draw the letters requested in as many different positions, relative to each other, as you can.

4. Make 2 X's. Each X must touch exactly 5 dots.


DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP.
STORAGE TEST -- XF-3

In this test you will be asked to plan how objects can be stored in a given space. You will be asked to think of as many different ways as possible to arrange the objects in this space.

How many different ways can 4 boxes, like the one on the left below, be stored in the container shown on the right? The numbers on the sides of the figures and the dotted lines are to help you compare sizes.

Box: \[
\begin{array}{c}
\text{2} \\
\text{1} \\
\end{array}
\]

Container: \[
\begin{array}{c}
\text{2} \\
\text{2} \\
\end{array}
\]

The drawings below show three correct solutions to this problem. Note that drawings (1) and (2) use the same rule. The rule is that all of the square ends of the boxes are on the same face of the cube. Drawing (3) uses a different rule.

(1) \quad (2) \quad (3)

Your score on this test will be:

2 points credit for each drawing which shows a new rule; 1 point credit for each drawing which is not exactly the same as earlier drawings but which uses the same rule.

You will have 3 minutes for each of the two parts of this test. Each part has one page. When you have finished Part 1, STOP. Please do not go on to Part 2 until asked to do so.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO.
Part 1 (3 minutes)

How many different ways can 6 boxes, like the one on the left below, be stored in the container at the right?

Box:

Container:

Draw your solutions on the containers below:

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO. STOP.
Part 2 (3 minutes)

How many different ways can 8 boxes, like the one on the left below, be stored in the container on the right?

Box: Container:

1 4
1 3
3 2

Draw your solutions on the containers below:

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.

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COBROHIBING OBJECTS -- XU-1

In this test you will use your practical resourcefulness in naming two objects that can be used together in order to make something or do something that is required. You will name objects usually found around specified locations. For example:

Request: Rub dirt off the inside of a small bottle.
Location: An ordinary house; bottle cleaners are not available.

For this problem you would write down "rag" and "pencil" or two similar objects, since you could wrap the rag around the pencil and insert it into the bottle.

Each item in the test will make a request and will indicate your location and the lack of some particular appropriate object. You are to name two objects that would usually be found in the given location and which can be used together to fulfill the request. Assume that you are allowed to prepare the objects with tools or equipment that are usually available in the given location.

Your score will be the number of correct responses which you give.

You will have 5 minutes for each of the two parts of this test. Each part has one page with 10 items. When you have finished Part 1, STOP. Do not go on to Part 2 until you are asked to do so.
Name two objects that can be used together to fulfill each request:

1. Request: Kill wasps nesting in a crevice in the rocks.
   Location: Near your camp in the woods; no insect spray available.

2. Request: Make a sign with wide clear letters saying "Wet Paint."
   Location: An ordinary house; no more paint available.

3. Request: Make a fly swatter.
   Location: An ordinary house; no manufactured fly swatter available.

4. Request: Break off a dead branch that is 30 feet high on a tree.
   Location: Near an ordinary house; no ladder or way to climb the tree available.

5. Request: Produce emergency floatation.
   Location: In deep water; nothing is floating nearby, but you are fully clothed.

6. Request: Check the exact verticalness of a post.
   Location: Boathouse with sporting gear; no carpenter's level available.

7. Request: Construct a temporary scarecrow.
   Location: In an ordinary backyard with garage; no trees or shrubbery available.

8. Request: Make book shelves or racks for several hundred books.
   Location: Near burned out, tumbled down building in the woods; no lumber, nails or cement available.

9. Request: Make a broom for sweeping the floor.
   Location: Cabin in the woods; no broom or brushes available.

10. Request: Make something to anchor a boat.
    Location: Near an automobile junk yard; no anchor or chain available.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO. STOP.
Name two objects that can be used together to fulfill each request:

11. Request: Prepare a lightning rod for a cabin.
    Location: Cabin near an automobile junk yard; no manufactured lightning rod available.

12. Request: Make an envelope.
    Location: An ordinary house; no envelopes available.

13. Request: Find a gold ring lost in the sand.
    Location: An ordinary house; no electronic metal detector available.

14. Request: Clean your ears.
    Location: An ordinary house; no tooth picks or special swabs available.

15. Request: Draw a large, nearly perfect circle.
    Location: An ordinary house; no big round objects are available.

16. Request: Make a quiet door stop.
    Location: An ordinary house; no manufactured door stop available.

17. Request: Make a pair of earmuffs.
    Location: An ordinary house; no hats available for use.

18. Request: Reach a kite caught 20 feet high in a tree.
    Location: Field and woods; no house or supplies available; tree cannot be climbed.

19. Request: Compare the weights of two fish.
    Location: Cabin in the woods with fishing gear; no scales available.

20. Request: Make a stretcher for an injured person.
    Location: Cabin in the woods; no litter available.

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP

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SUBSTITUTE USES -- XU-2

Sometimes you find yourself in a place where the object that you normally would use to perform a task is not available and it is necessary for you to find a substitute. For example, suppose you are at a baseball game on a very hot day. You have forgotten to bring a fan of any sort. What could you use instead to fan yourself? You might think of using the baseball program or a hat as a substitute for a fan.

In this test you will be asked to think of objects that can be used as substitutes. You will be asked to imagine yourself in a situation with certain surroundings and to name a common object that is likely to be found in this location and which can serve as a substitute for the named object or purpose.

Now try this example: Suppose you have been shipwrecked and are on a small raft with only your clothing, some food, some water, and some fishing equipment available. What one object might you use to make a small sail?

A shirt or a blouse would be correct answers. It would be incorrect to say a tablecloth because it is not likely that there would be one available.

Your score on this test will be the number of acceptable answers which you give.

You will have 5 minutes for each of the two parts of this test. Each part has 10 items. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.
Part 1 (5 minutes)

You are located near the shore of a lake. You have picnicking and camping equipment, fishing equipment, and appropriate clothes. Name one object that is probably available and which can be used for each of the following purposes:

1. to serve as a medicine dropper to put drops in your eye.

2. to sharpen a knife.

3. to make a shot-like noise.

4. to protect your head from falling rocks.

5. to collect rainwater for drinking.

6. to regain your shoe, which sank 6 feet in the lake.

7. to remove spots of paint from your metal tackle box.

8. to tell you which way is north, if you have lost your compass.

9. to cut your hair or shave your beard reasonably well.

10. to mark a tree so as to signify a particular location or a trail.

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO

STOP.
You and your spouse are locked in your motel unit. The unit consists of one large bedroom and a bath. You have your clothing and suitcases with you. Name one object that is probably available in your motel unit and which can be used for each of the following purposes:

11. to serve as an emergency hammer.

12. to serve as an emergency screw driver.

13. to cover your face for protection against mosquitoes but still be able to see.

14. to keep a bottle of soda cold.

15. to keep your dirty laundry together.

16. to wipe dirt off the window.

17. to keep the window from sticking when you try to open it.

18. to protect the head of your golf club if you need to use it to break the window.

19. to write a message for help.

20. to serve as a string to lower your message to the ground.

DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO

STOP
MAKING GROUPS — XU-3

In this test you will be asked to make groups of things which are alike in some way and to explain the reason for each group.

Each item in the test will have a list of seven things. You should try to think of ways in which these things are alike. Use the letters beside the names of the things to identify groups which are alike in some way. Then write what it is about the things that makes them alike.

Look at this example:  

<table>
<thead>
<tr>
<th>Group (letters)</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. trout</td>
<td>a, l, c, f</td>
</tr>
<tr>
<td>b. robin</td>
<td>d, e, g</td>
</tr>
<tr>
<td>c. frog</td>
<td>b, f, g</td>
</tr>
<tr>
<td>d. car</td>
<td>a, c, e</td>
</tr>
<tr>
<td>e. boat</td>
<td></td>
</tr>
<tr>
<td>f. bat</td>
<td></td>
</tr>
<tr>
<td>g. airplane</td>
<td></td>
</tr>
</tbody>
</table>

You might have written down different groups or different reasons from those given in the sample.

Try to think of as many different ways as possible to make groups. Each group must have at least three things in it. The same group cannot be used with different reasons. The groups should be based on such characteristics as size, color, shape, or use and not on how the words are spelled or their sounds.

Try to think of as many different groups as possible (up to 10) for each item. However, if you have trouble in thinking of enough groups for one item, leave it and go on to the next item.

Your score on this test will be the number of correct groups that you make. Remember that a group must have both the letters of the objects and the reason for grouping them in order to be correct.

You will have 5 minutes for each of the two parts of this test. Each part has one page with two items. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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## Part 1 (5 minutes)

<table>
<thead>
<tr>
<th></th>
<th>Group (letters)</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>tomato</td>
<td></td>
</tr>
<tr>
<td></td>
<td>tangerine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>orange</td>
<td></td>
</tr>
<tr>
<td></td>
<td>onion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>carrot</td>
<td></td>
</tr>
<tr>
<td></td>
<td>beet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>apple</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.</th>
<th>Group (letters)</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>ballet</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>concert</td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>movie</td>
<td></td>
</tr>
<tr>
<td>d</td>
<td>radio</td>
<td></td>
</tr>
<tr>
<td>e</td>
<td>telephone</td>
<td></td>
</tr>
<tr>
<td>f</td>
<td>television</td>
<td></td>
</tr>
<tr>
<td>g</td>
<td>theater</td>
<td></td>
</tr>
</tbody>
</table>

DO NOT TURN THIS PAGE UNTIL ASKED TO DO SO
### Part 2 (5 minutes)

<table>
<thead>
<tr>
<th></th>
<th>Group (letters)</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>canary</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>cat</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>dog</td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td>elephant</td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td>leopard</td>
<td></td>
</tr>
<tr>
<td>f.</td>
<td>lion</td>
<td></td>
</tr>
<tr>
<td>g.</td>
<td>squirrel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.</th>
<th>Group (letters)</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>canoe</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>speed boat</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>automobile</td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td>motorcycle</td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td>bicycle</td>
<td></td>
</tr>
<tr>
<td>f.</td>
<td>swim</td>
<td></td>
</tr>
<tr>
<td>g.</td>
<td>walk</td>
<td></td>
</tr>
</tbody>
</table>

**DO NOT GO BACK TO PART 1 AND DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO.**

**STOP.**
DIFFERENT USES -- XU-4

In this test you are to think of different uses for common objects.

Each item will consist of the name of a common object and, in parentheses, a description of its usual use. You are to think of other ways in which the whole object, or parts of it, can be used. Write these uses on the lines provided.

Look at the example below:

MAGAZINE (used for reading)

Other uses:

- swat mosquitoes
- start a fire
- make paper beads

Try to think of as many different uses (up to six) as you can for each object. Each use that you give must be really different from the others. For example, in the item above, you could not receive credit for both "swat flies" and "swat mosquitoes."

Your score on this test will be the number of acceptable responses which you give.

You will have 5 minutes for each of the two parts of this test. Each part has one page with four items. When you have finished Part 1, STOP. Please do not go on to Part 2 until you are asked to do so.

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List as many different uses as you can (up to 6) for each of the objects listed:

1. CAKE OF SOAP (used for washing)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

2. BARREL (used to keep things in)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

3. SOCK (used as footwear)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

4. SNAP (used to fasten clothing)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

DO NOT TURN PAGE UNTIL ASKED TO DO SO. STOP.
Part 2 (5 minutes)

List as many different uses as you can (up to 6) for each of the objects listed:

5. PAPER CLIP (hold papers together)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

6. COMB (to fix hair)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

7. TABLE (place things on)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

8. PAPER CUP (hold water)
   A. 
   B. 
   C. 
   D. 
   E. 
   F. 

DO NOT GO BACK TO PART 1 AND
DO NOT GO ON TO ANY OTHER TEST UNTIL ASKED TO DO SO. STOP.