

Columbus - Ohio



SPACE RELATIONS

FORM A

Do not open this booklet until you are told to do so.

On your SEPARATE ANSWER SHEET, print your name, address, and other requested information in the proper spaces.

In the space after **Form**, print an **A**.

Then wait for further instructions.

DO NOT MAKE ANY MARKS IN THIS BOOKLET

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The Psychological Corporation
522 Fifth Avenue
New York 18, N. Y.

Do not make any
marks in this
booklet

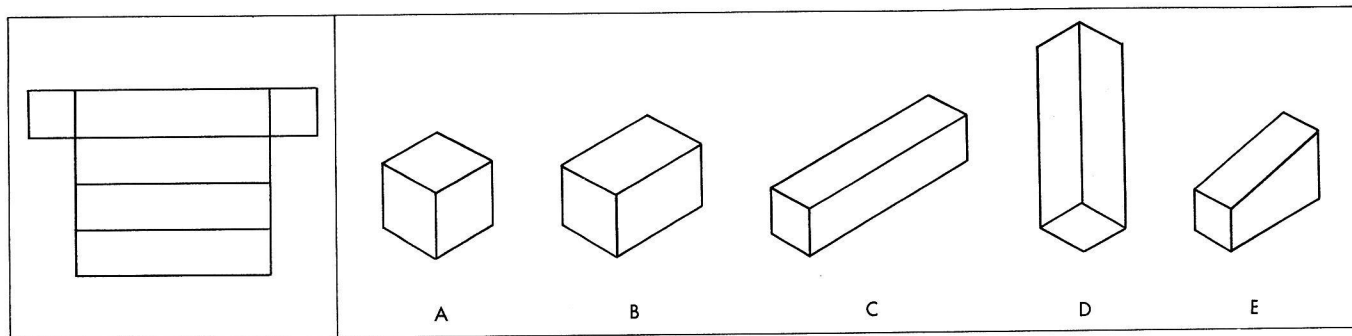
Mark your answers
on the separate
Answer Sheet

SPACE RELATIONS

DIRECTIONS

This test consists of forty patterns which can be folded into figures. For each pattern, five figures are shown. You are to decide which of these figures can be made from the pattern shown. The pattern always shows the outside of the figure. Here is an example:

EXAMPLE X

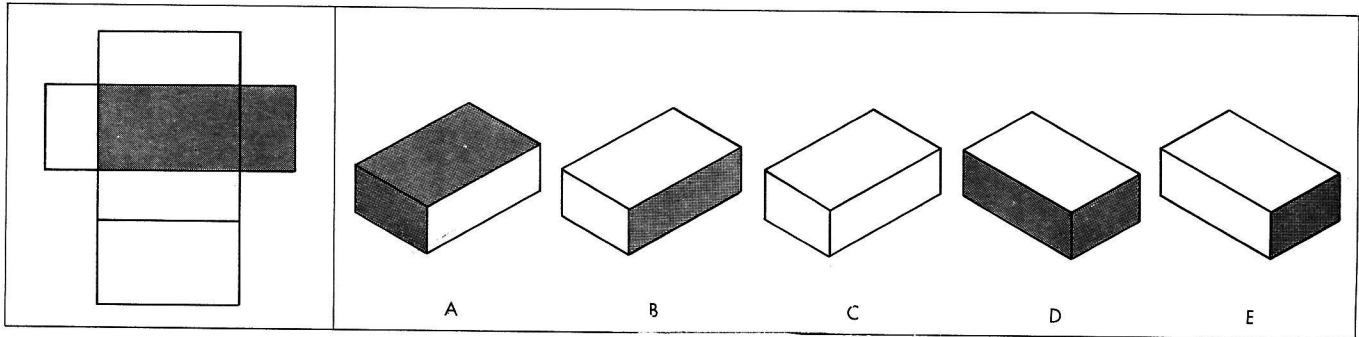


Which of these five figures — A, B, C, D, E — can be made from the pattern in Example X? A and B certainly cannot be made; they are not the right shape. C and D are correct both in shape and size. You cannot make E from this pattern.

- In the test there will always be a row of five figures for each pattern.
- In every row there is at least one correct figure.
- Usually more than one is correct. In fact, in some cases, all five may be correct.

Now look at the pattern for Example Y and the five choices for it. Note that when the pattern is folded, the figure must have two **gray** surfaces. One of these is a large surface which could be **either** the top or bottom of a box. The other is a small surface which would be one end of the box.

EXAMPLE Y



Notice — all the “boxes” made from this pattern are correct in **shape**, but the sides which you see are different. Some of these figures can be made from this pattern while others cannot. Let us look at them.

— Figure A is correct. If the large gray surface is shown as the top, then the end surface of gray can be shown facing towards you.

— Figure B is wrong. The **long, narrow** side is not gray in the pattern.

— Figure C is correct. The two gray surfaces can both be hidden by placing the large gray surface at the bottom and the gray end to the back.

— Figure D is wrong. The gray end is all right, but there is no long gray side in the pattern.

— Figure E is correct. One can show the box so that the large gray surface is at the bottom (as it was in C), but with the gray end showing at the front.

So, you see, there are three figures (A, C and E) which can be made from the pattern in Example Y, and two figures (B and D) which cannot be made from this pattern.

Remember that the surface you see in the pattern must always be the **OUTSIDE** surface of the completed figure.

Now let's see how we mark our answers on the separate Answer Sheet. A sample is shown here.

For Example X we found that only figures C and D could be made, so the spaces under C and D opposite X have been blackened. For Example Y, A is a correct figure, C is correct, and E is correct, so opposite Y we have blackened in the spaces under A, C and E.

SAMPLE OF ANSWER SHEET

X	A	B	C	D	E
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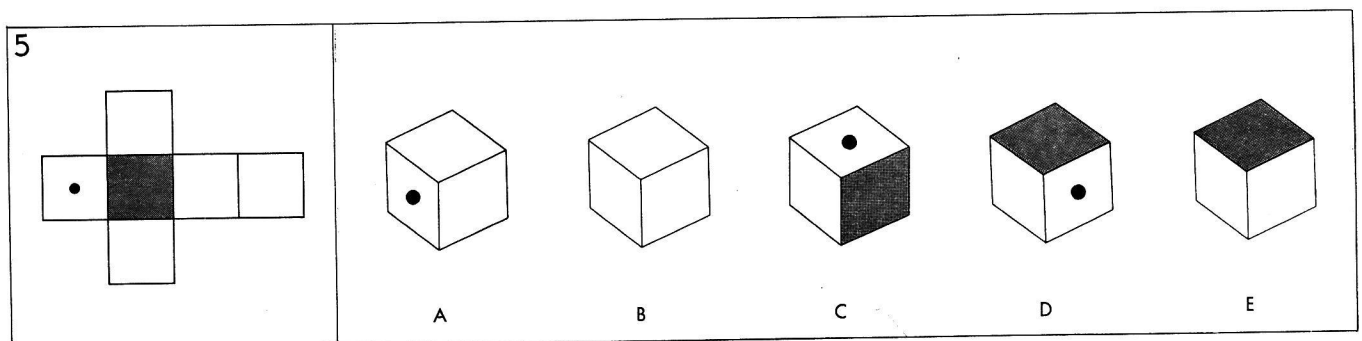
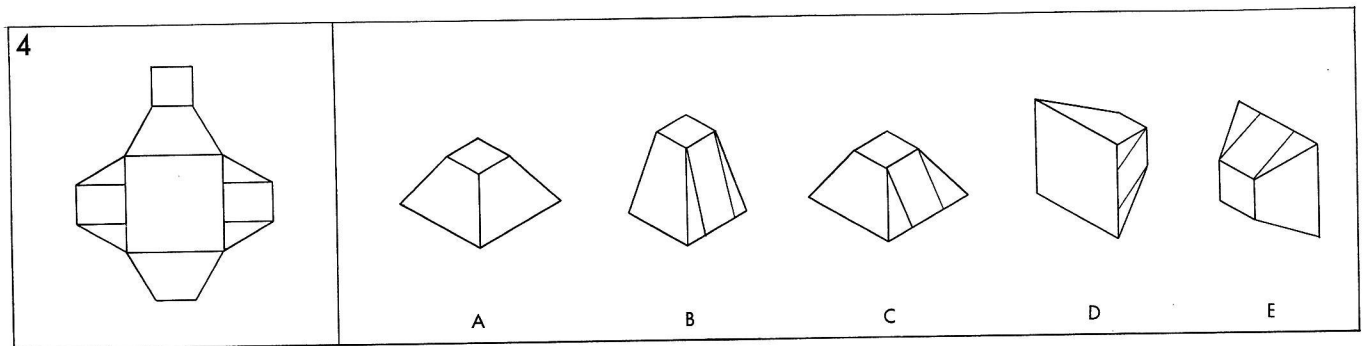
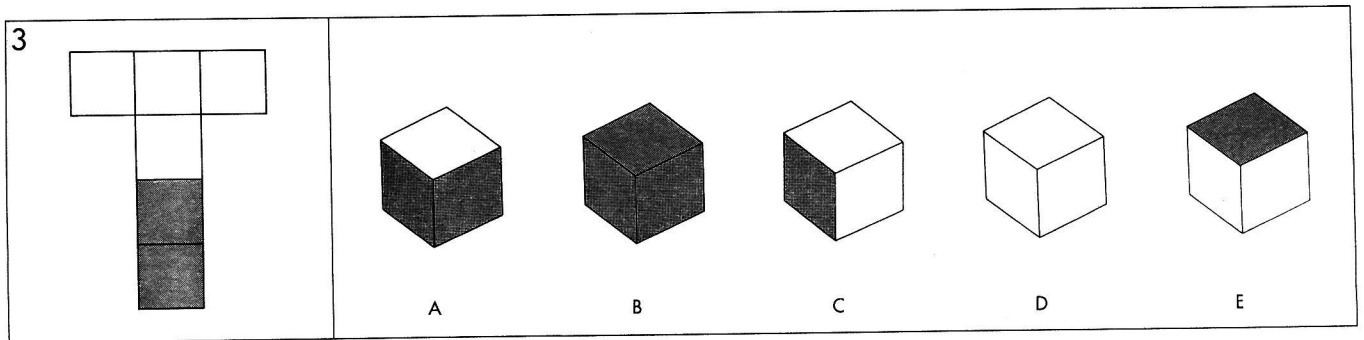
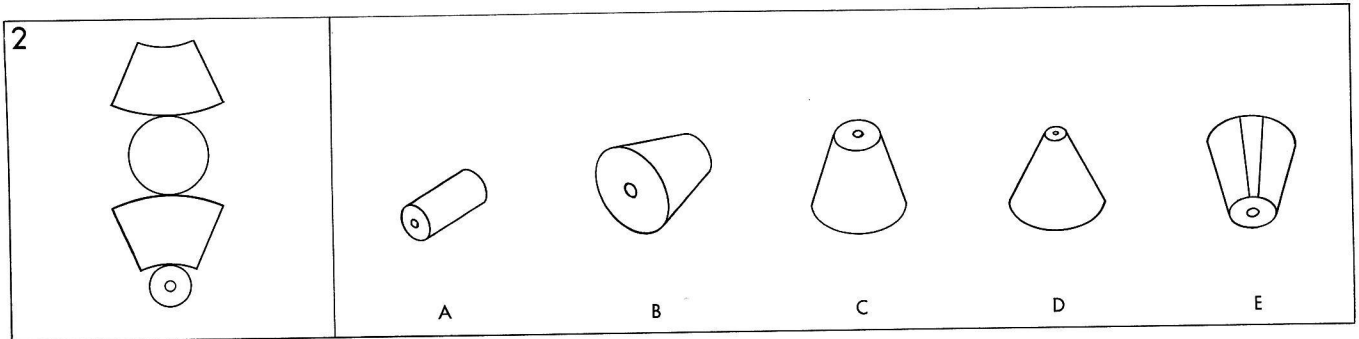
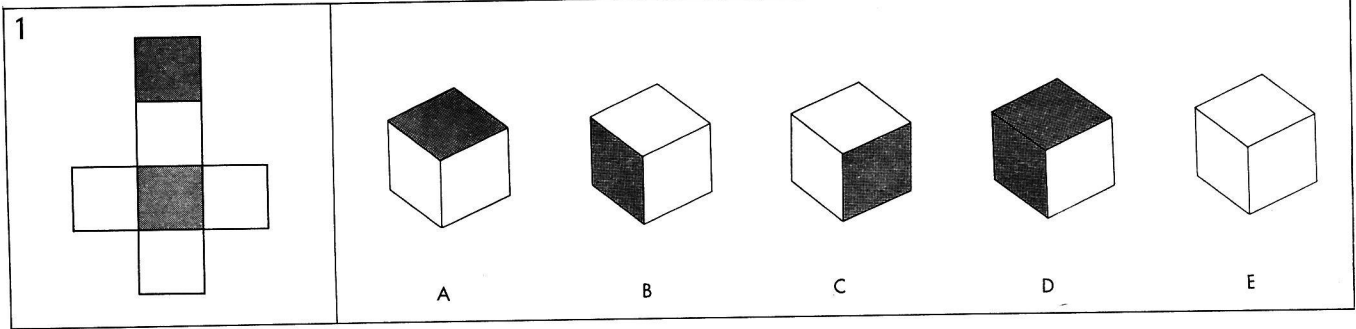
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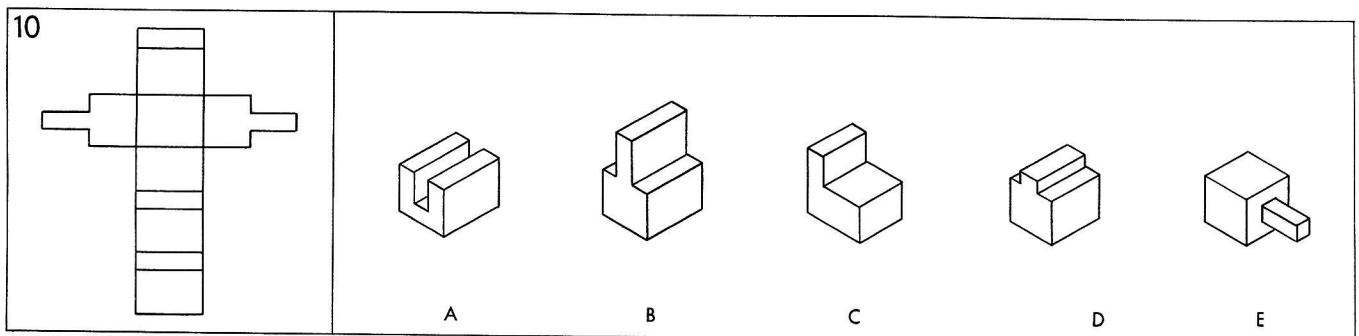
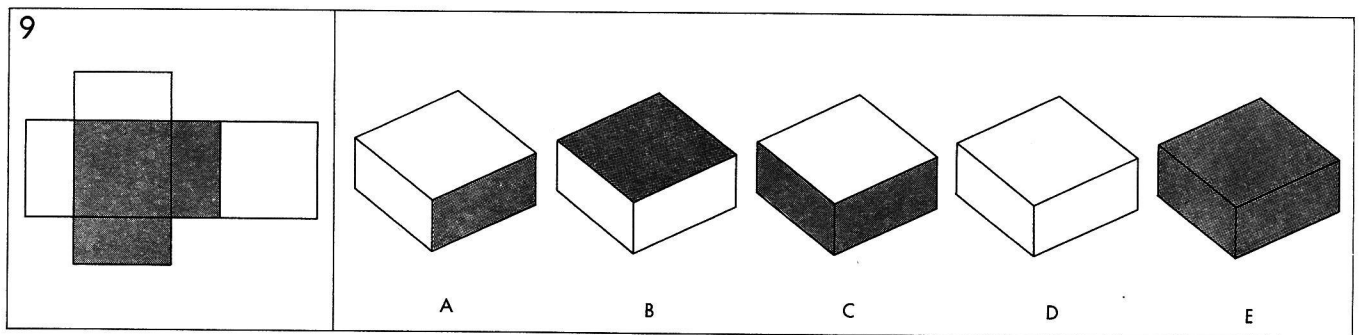
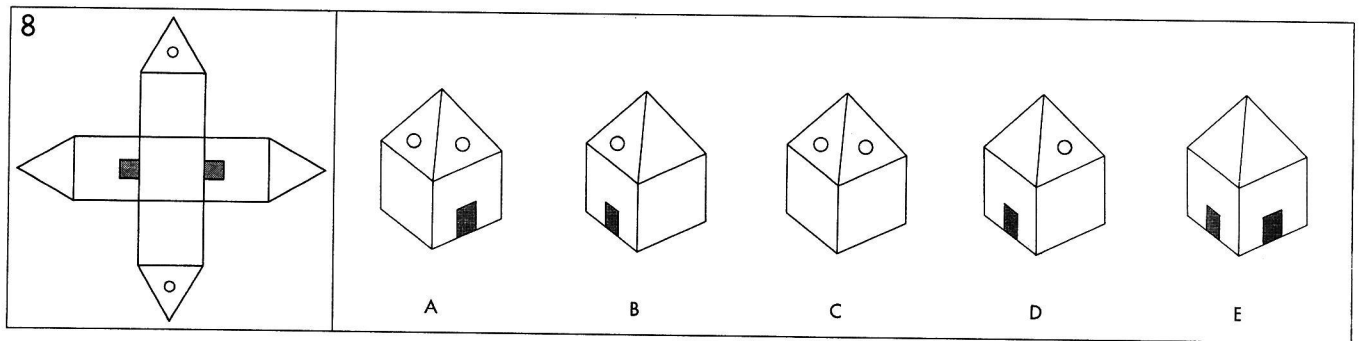
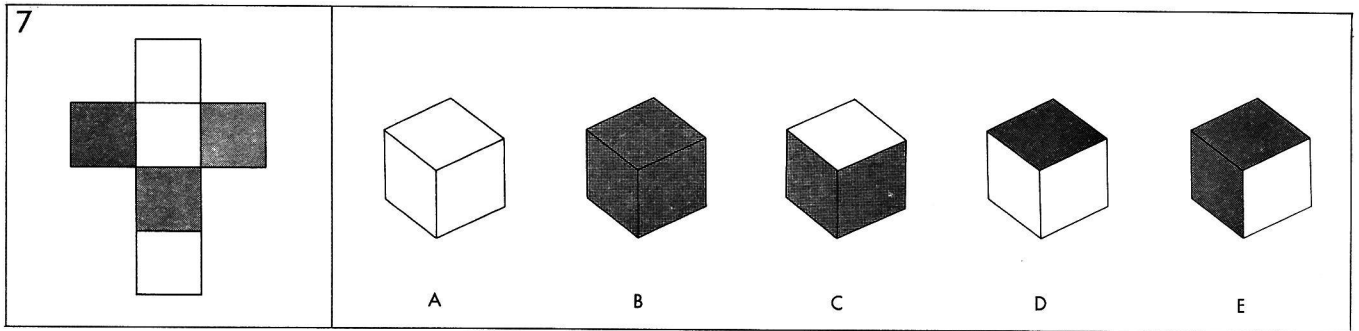
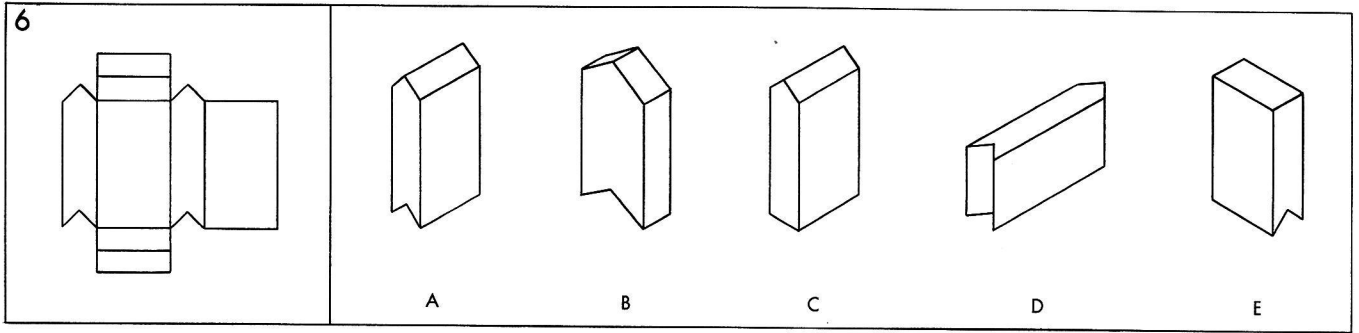
- Study each pattern.
- Decide which of the figures can be made from the pattern.
- Show your choices on the Answer Sheet by blackening in the little space under the letter which is the same as that of the figure you have chosen in the booklet.
- If you decide a certain figure cannot be made from the Pattern, make no mark on the Answer Sheet.

Do Not Write Anything in This Booklet

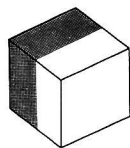
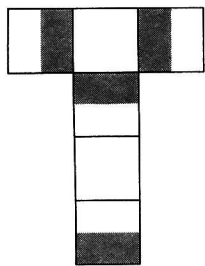
Use Separate Answer Sheet

You Will Be Told When to Begin

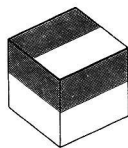




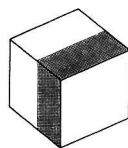
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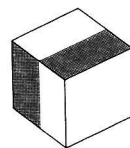
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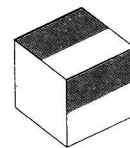
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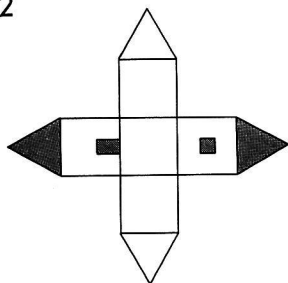


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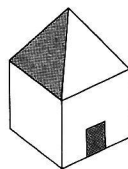


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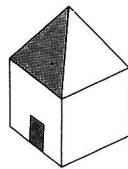
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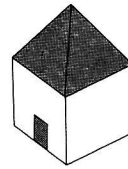
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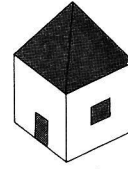
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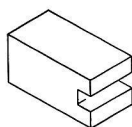
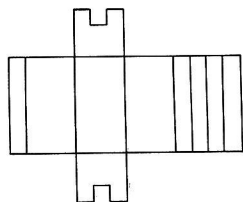


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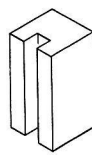
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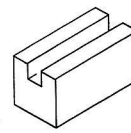
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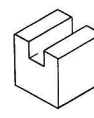
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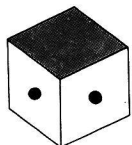
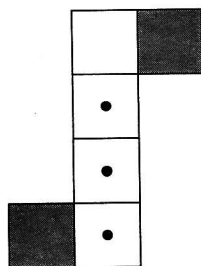


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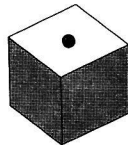


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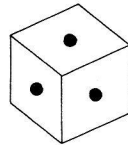
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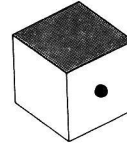
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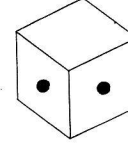
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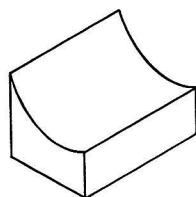
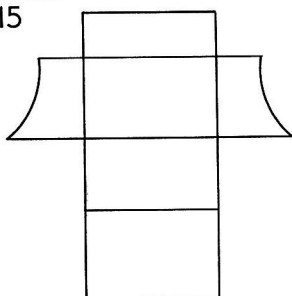


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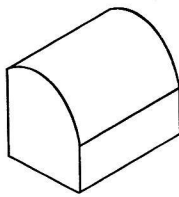


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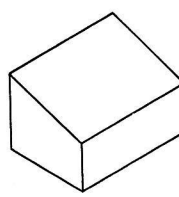
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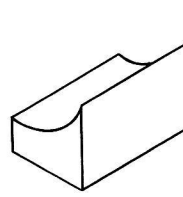
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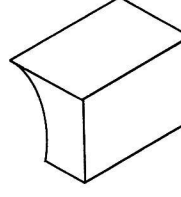
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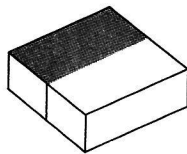
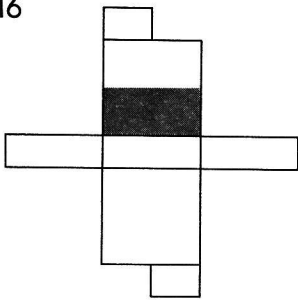


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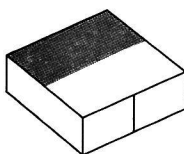


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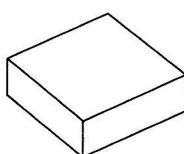
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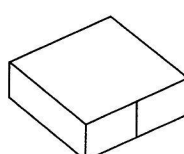
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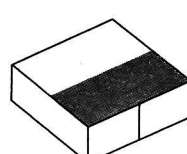
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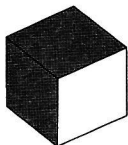
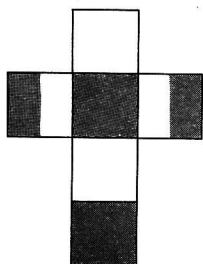


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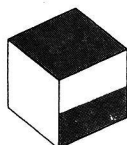


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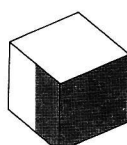
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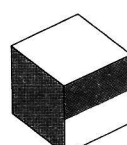
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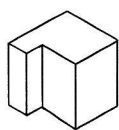
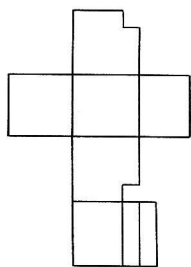


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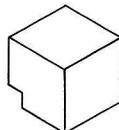


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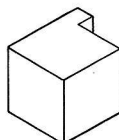
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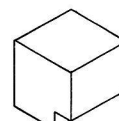
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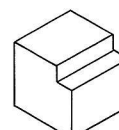
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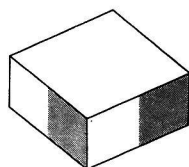
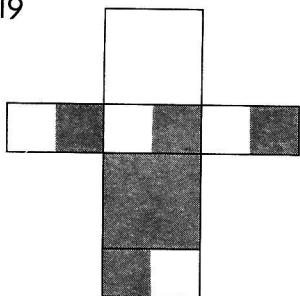


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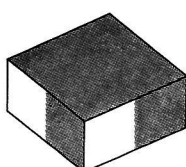


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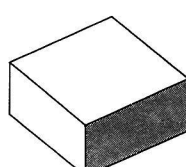
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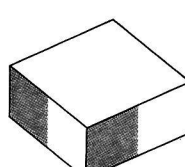
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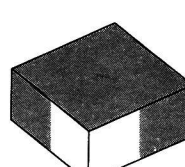
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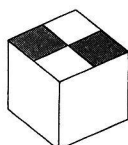
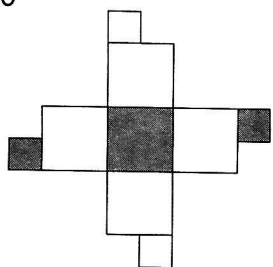


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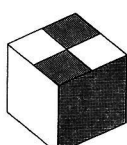


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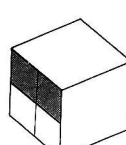
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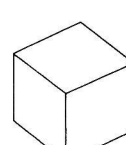
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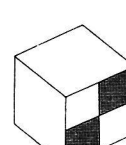
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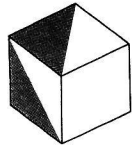
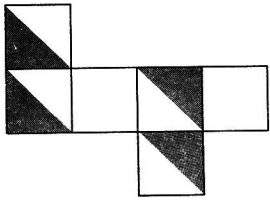


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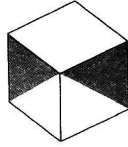


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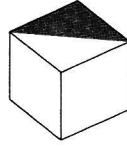
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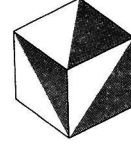
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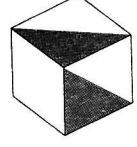
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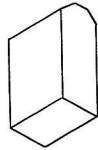
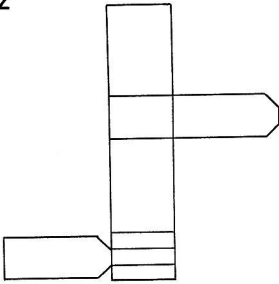


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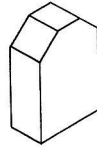


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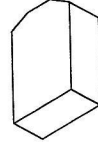
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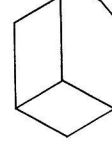
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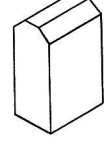
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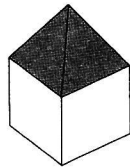
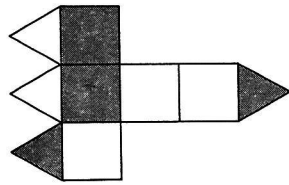


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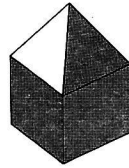


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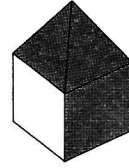
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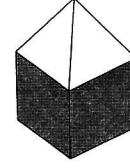
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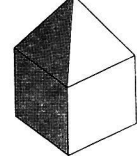
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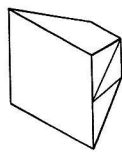
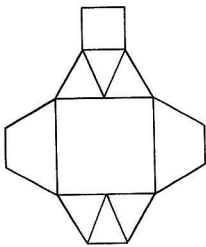


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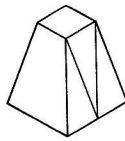


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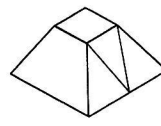
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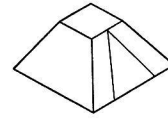
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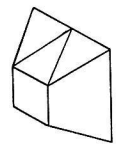
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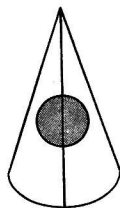
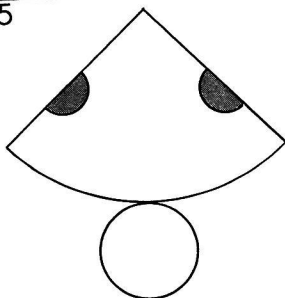


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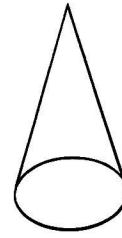
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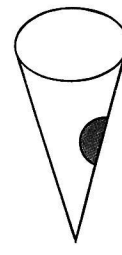
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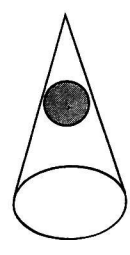
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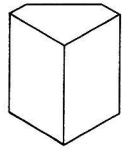
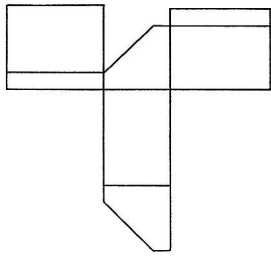


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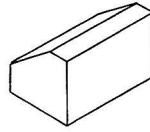


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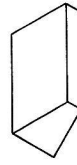
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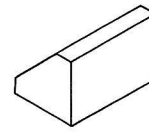
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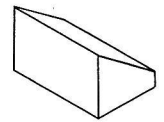
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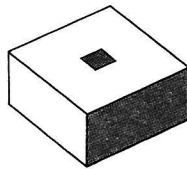
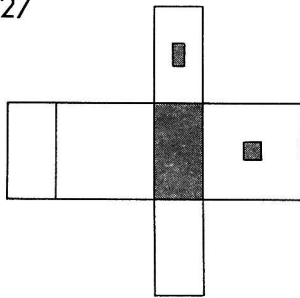


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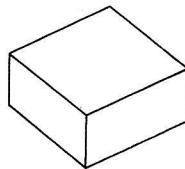


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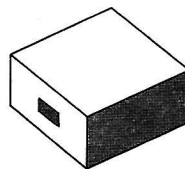
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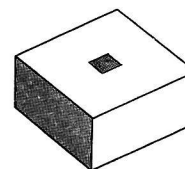
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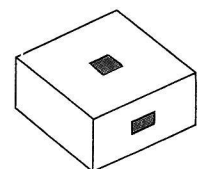
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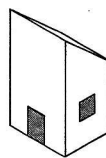
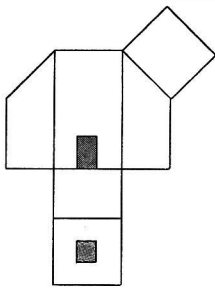


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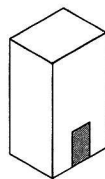


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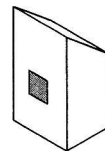
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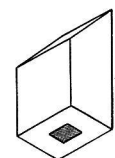
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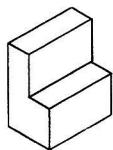
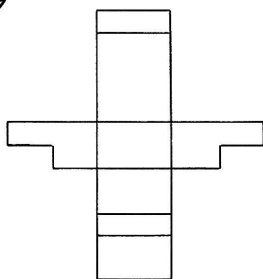


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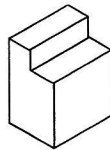


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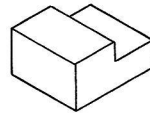
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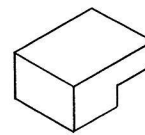
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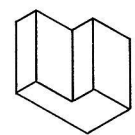
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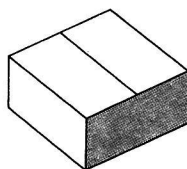
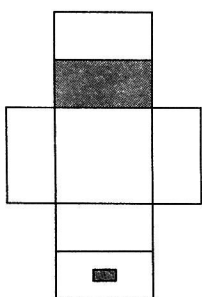


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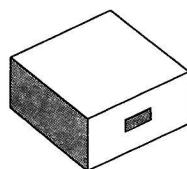


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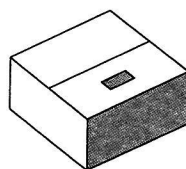
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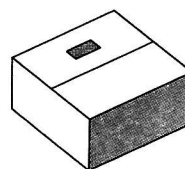
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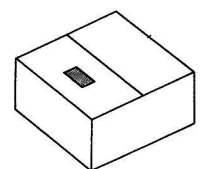
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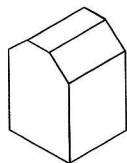
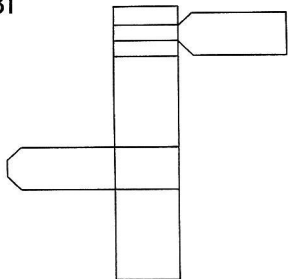


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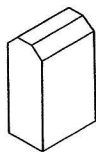


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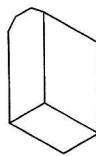
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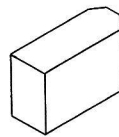
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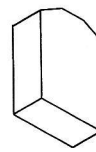
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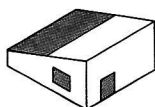
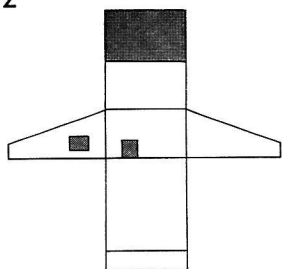


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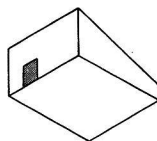


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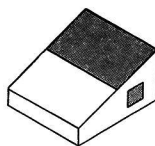
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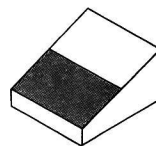
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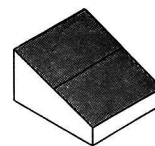
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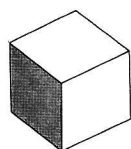
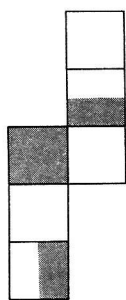


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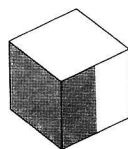


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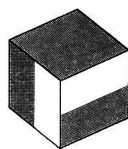
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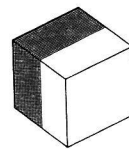
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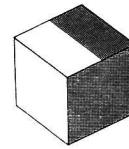
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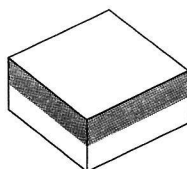
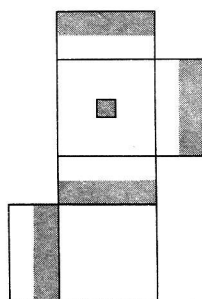


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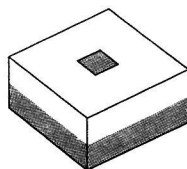


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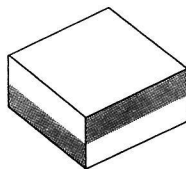
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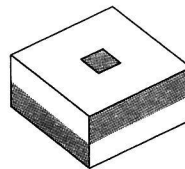
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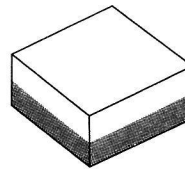
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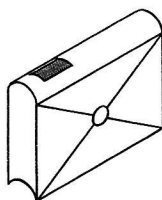
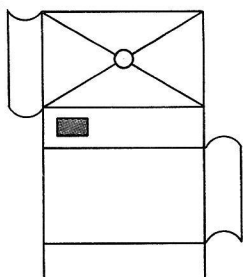


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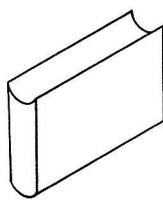


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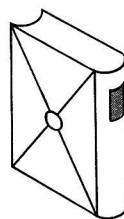
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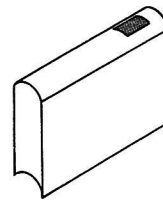
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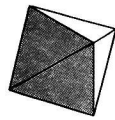
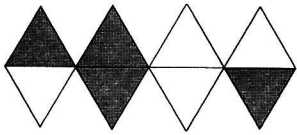


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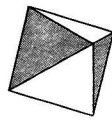


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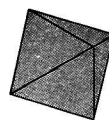
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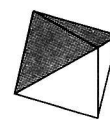
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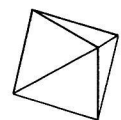
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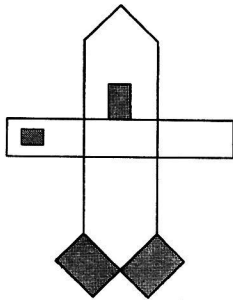


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E

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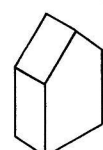
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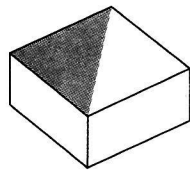
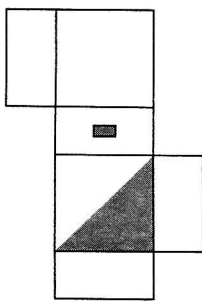


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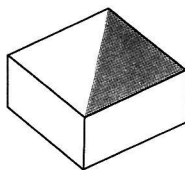


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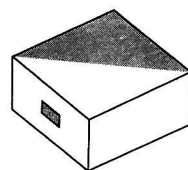
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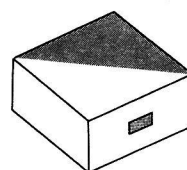
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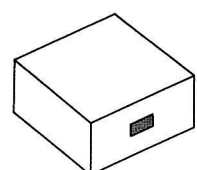
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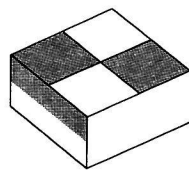
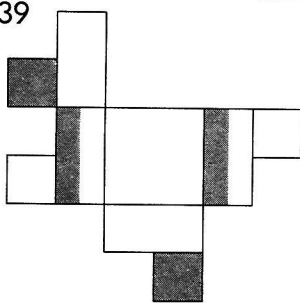


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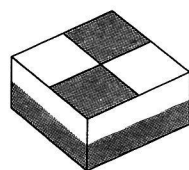


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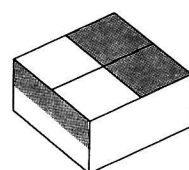
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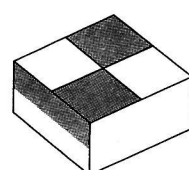
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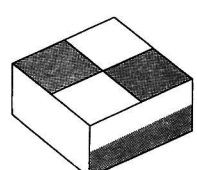
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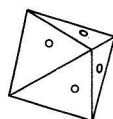
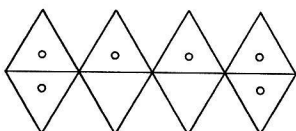


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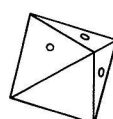


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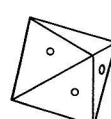
40



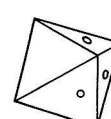
A



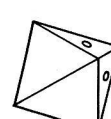
B



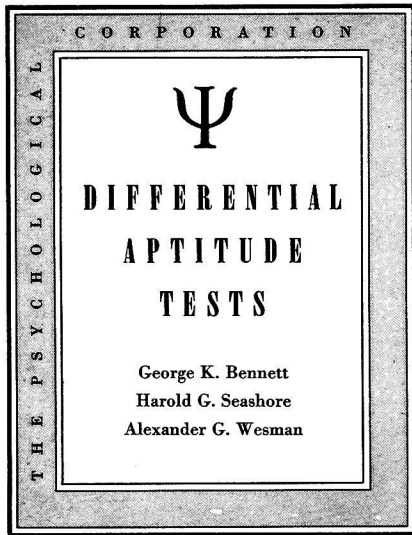
C



D



E



Columbus - Ohio

CLERICAL SPEED AND ACCURACY FORM A

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SPEED AND ACCURACY

Mark your answers
on the separate
Answer Sheet

DIRECTIONS

This is a test to see how quickly and accurately you can compare letter and number combinations. On the following pages are groups of these combinations; each Test Item contains five. These same combinations appear after the number for each Test Item on the separate Answer Sheet, but they are in a different order. You will notice that in each Test Item one of the five is underlined. You are to look at the **one** combination which is underlined, find the **same** one after that item number on the separate Answer Sheet, and fill in the space under it.

These examples are correctly done. Note that the combination on the Answer Sheet must be exactly the same as the one in the Test Item.

TEST ITEMS

V. <u>AB</u>	AC	AD	AE	AF
W. aA	aB	BA	Ba	<u>Bb</u>
X. A7	7A	B7	<u>7B</u>	AB
Y. Aa	Ba	<u>bA</u>	BA	bB
Z. 3A	3B	<u>33</u>	B3	BB

SAMPLE OF ANSWER SHEET

V	AC	AE	AF	<u>AB</u>	AD
W	BA	Ba	<u>Bb</u>	aA	aB
X	<u>7B</u>	B7	AB	7A	A7
Y	Aa	<u>bA</u>	bB	Ba	BA
Z	BB	3B	B3	3A	<u>33</u>

If you finish the items in Part I before time is called, check your work. Do **not** turn to Part II until you are told to do so. Work as fast as you can.

DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO.

PART I

- | | |
|---|--|
| <p>1. <u>nv</u> nx xn vx xv</p> <p>2. bl dl ld <u>lb</u> bd</p> <p>3. ar au ur ra <u>ru</u></p> <p>4. <u>wu</u> vu vw wv uw</p> <p>5. wm um mu wu <u>mw</u></p>
<p>6. <u>79</u> 76 67 69 97</p> <p>7. ra <u>na</u> nr rn ar</p> <p>8. za mz <u>zm</u> az ma</p> <p>9. AV VN NV <u>NA</u> VA</p> <p>10. OQ <u>CQ</u> QC QO OC</p>
<p>11. <u>CU</u> UU UC US CC</p> <p>12. 4H 4N NH N4 <u>HN</u></p> <p>13. Rr RP <u>pR</u> PP rr</p> <p>14. Aa A8 8a <u>8A</u> aA</p> <p>15. LT Tt <u>tT</u> Tl tt</p>
<p>16. Av <u>Vv</u> av VV AA</p> <p>17. 4d 3c <u>4a</u> 4c 3a</p> <p>18. X7 V9 V5 X9 <u>V7</u></p> <p>19. <u>A9</u> 7b 79 9b b7</p> <p>20. <u>20</u> 25 02 05 52</p>
<p>21. ar ra <u>ro</u> or oa</p> <p>22. lc lo ol <u>oc</u> co</p> <p>23. 1s 13 31 3s <u>s1</u></p> <p>24. ma cm ca <u>mc</u> am</p> <p>25. xv vx <u>vw</u> wx wv</p> | <p>26. <u>ud</u> un nd nu du</p> <p>27. fk <u>lk</u> kf lf kl</p> <p>28. pq <u>qg</u> gp gq qp</p> <p>29. 2u 2q <u>qu</u> q2 u2</p> <p>30. 41 44 <u>14</u> 11 40</p>
<p>31. nr ne en rn <u>re</u></p> <p>32. bb <u>dd</u> ld db bd</p> <p>33. RB <u>RD</u> DR BR BD</p> <p>34. MW MV VW <u>VM</u> WM</p> <p>35. OD OB BD <u>DO</u> BO</p>
<p>36. PR <u>PB</u> RB RP BP</p> <p>37. Dd Db <u>dB</u> bB DD</p> <p>38. EE Ef eF Fe <u>FF</u></p> <p>39. Ze Zz <u>ZE</u> zE eZ</p> <p>40. <u>Zz</u> NZ zZ zn ZN</p>
<p>41. 7c 9b <u>9c</u> 9e 7b</p> <p>42. 7c <u>2b</u> 7b 2d 7d</p> <p>43. <u>n3</u> Sn 3s ns 3n</p> <p>44. 20 <u>25</u> 02 05 52</p> <p>45. ec ac <u>ca</u> ce ae</p>
<p>46. 2h h4 42 <u>4h</u> 24</p> <p>47. <u>av</u> va vo ao ov</p> <p>48. fa <u>fr</u> ra rf ar</p> <p>49. <u>ma</u> cm ca mc am</p> <p>50. rc cr <u>co</u> oc or</p> |
|---|--|

GO ON TO THE NEXT PAGE AND KEEP RIGHT ON WORKING.

51. ch ho hc oc oh
 52. se rs re es er
 53. ar au ur ra ru
 54. pq qg gp gq qp
 55. am na nm mn an

56. gj ig pg jp gp
 57. tp et ep pe pt
 58. ra na nr rn ar
 59. bb dd ld db bd
 60. 18 81 1a 8a a8

61. HN HZ ZH ZN NH
 62. RR BR RB BB RP
 63. CU UU UC US CC
 64. PR PB RB RP BP
 65. CK KJ JC KC JK

66. T1 1T 11 Tt TT
 67. SX sX sx Xs XS
 68. LT Tt tT Tl tt
 69. Zz NZ zZ zn ZN
 70. GQ Qg qq qg QG

71. 4c 1a 1c 4d 2d
 72. S8 C3 S3 C8 C5
 73. A9 7b 79 9b b7
 74. 18 81 71 78 17
 75. b4 4d db d4 bd

76. u6 u4 4u 6u 46
 77. 3x 7x 73 37 x7
 78. 1s 13 31 3s s1
 79. en dn de ed nd
 80. ni fi fn in nf

81. 35 53 h3 3h 5h
 82. bl dl ld lb bd
 83. fk lk kf lf kl
 84. 69 6d 9d d6 d9
 85. XX VX VZ ZV XV

86. j8 a8 8a 8j ja
 87. 79 76 67 69 97
 88. nr ne en rn re
 89. 4X 4V Vx V4 X4
 90. vn vz zv nv zn

91. B8 R8 8B RB 8R
 92. OQ CQ QC QO OC
 93. OD OB BD DO BO
 94. ZY ZX XY YZ YX
 95. OU OC UC UO CO

96. Cc Oc OO cO cc
 97. Aa A8 8a 8A aA
 98. Ze Zz ZE zE eZ
 99. BP Pb bP pp bB
 100. Cz CZ Zc zC cz

STOP. DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO.

PART II

- | | |
|---|--|
| <p>1. YZ VY <u>VX</u> XY ZY</p> <p>2. b9 c6 69 96 <u>6c</u></p> <p>3. ou <u>oa</u> ua uo ao</p> <p>4. lc lo ol oc <u>co</u></p> <p>5. X7 <u>V9</u> V5 X9 V7</p>
<p>6. <u>Sc</u> 8c 8s cS c8</p> <p>7. ob bt ot tb <u>bo</u></p> <p>8. 5e 3d <u>4d</u> 2e 2d</p> <p>9. rc dc <u>dr</u> rd cr</p> <p>10. ws sw <u>st</u> tw ts</p>
<p>11. wm um mu wu <u>mw</u></p> <p>12. pp qq <u>pq</u> pg qp</p> <p>13. nv nx xn vx <u>xv</u></p> <p>14. nu un <u>um</u> mn mu</p> <p>15. zn zz <u>nz</u> nn mn</p>
<p>16. <u>pg</u> gy py yp yg</p> <p>17. <u>59</u> 9Y 5Y Y9 95</p> <p>18. nu <u>on</u> ou un uo</p> <p>19. ud un nd <u>nu</u> du</p> <p>20. 41 <u>44</u> 14 11 40</p>
<p>21. Rr RP <u>pR</u> PP rr</p> <p>22. LT IT IL <u>TL</u> TI</p> <p>23. MW <u>MV</u> VW VM WM</p> <p>24. Uu Wu uW <u>WW</u> uU</p> <p>25. 3x xc c3 cx <u>3c</u></p> | <p>26. AV VN NV <u>NA</u> VA</p> <p>27. YX XX Yy Xy <u>xX</u></p> <p>28. EL <u>FL</u> FE LF LE</p> <p>29. MN NM VN MV <u>NV</u></p> <p>30. EE Ef eF <u>Fe</u> FF</p>
<p>31. S8 <u>C8</u> 8C 8S S5</p> <p>32. h6 h8 <u>86</u> 8h 6h</p> <p>33. <u>4d</u> 3c 4a 4c 3a</p> <p>34. Z4 Z1 14 <u>1Z</u> 4Z</p> <p>35. <u>Qo</u> Qq OQ oq QQ</p>
<p>36. xc ex <u>ec</u> ce xe</p> <p>37. <u>ar</u> ra ro or oa</p> <p>38. 8c 8a 7a 6c <u>7c</u></p> <p>39. us ue se <u>su</u> eu</p> <p>40. <u>wo</u> ro rw ow wr</p>
<p>41. wu vu vw wv <u>uw</u></p> <p>42. <u>er</u> ri ir ie re</p> <p>43. <u>31</u> 23 32 13 21</p> <p>44. 2u <u>2q</u> qu q2 u2</p> <p>45. xv <u>vx</u> vw wx wv</p>
<p>46. ae et <u>ea</u> ta te</p> <p>47. <u>VI</u> SI SV VS IV</p> <p>48. th <u>he</u> et eh ht</p> <p>49. za mz zm <u>az</u> ma</p> <p>50. sx sa ax xs <u>xa</u></p> |
|---|--|

GO ON TO THE NEXT PAGE AND KEEP RIGHT ON WORKING.

51. Av Vv aV VV AA
 52. Mw wW WM MM mW
 53. 4H 4N NH N4 HN
 54. Dd Db dB bB DD
 55. S8 83 S3 38 3S

56. XO OO OX OV XX
 57. S8 C8 8C 8S S5
 58. X7 V9 V5 X9 V7
 59. L7 L1 17 1L 7L
 60. RB RD DR BR BD

61. 18 81 71 78 17
 62. Vv Ww Wv wV vv
 63. Mm MN NN nn mM
 64. b9 c6 69 96 6c
 65. 4c 1a 1c 4d 2d

66. 2h h4 42 4h 24
 67. YZ VY VX XY ZX
 68. n3 Sn 3s ns 3n
 69. wo ro rw ow wr
 70. ar ra ro or oa

71. ni fi fn in nf
 72. wu vu vw wv uw
 73. th he et eh ht
 74. am na nm mn an
 75. 3x 7x 73 37 x7

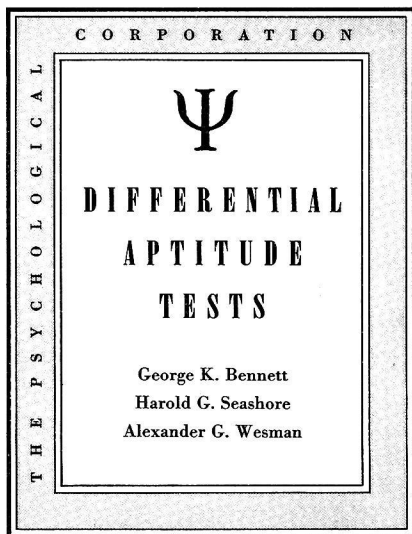
76. j8 a8 8a 8j ja
 77. 59 9Y 5Y Y9 95
 78. fk lk kf lf kl
 79. ma cm ca mc am
 80. nv nx xn vx xv

81. se rs re es er
 82. 4X 4V VX V4 X4
 83. zn zz nz nn mn
 84. LT IT IL TL TI
 85. 41 44 14 11 40

86. us ue se su eu
 87. PR PB RB RP BP
 88. Rr RP pR PP rr
 89. SX sX sx Xs XS
 90. ra na nr rn ar

91. OU OC UC UO CO
 92. RB RD DR BR BD
 93. XX XO OO OX OV
 94. HN HZ ZH ZN NH
 95. Av Vv aV VV AA

96. OQ CQ QC QO OC
 97. Ze Zz ZE zE eZ
 98. GQ Qg qq qg QG
 99. Mm MN NN nn mM
 100. Qo Qq OQ oq QQ



LANGUAGE USAGE

FORM A

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LANGUAGE USAGE

Mark your answers
on the separate
Answer Sheet

Part I SPELLING

DIRECTIONS

This test is composed of a series of words. Some of them are correctly spelled; some are incorrectly spelled. You are to indicate whether each word is spelled right or wrong by blackening the proper space on the separate Answer Sheet. If the spelling of the word is **right**, fill in the space under **RIGHT**. If it is spelled **wrong**, fill in the space under **WRONG**.

EXAMPLES

W. man
X. gurl
Y. catt
Z. dog

SAMPLE OF ANSWER SHEET

	RIGHT	WRONG
W	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	RIGHT	WRONG
X	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	RIGHT	WRONG
Y	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	RIGHT	WRONG
Z	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If you finish Part I before time is called, check your work. Do not go on to Part II until you are told to do so.

DO NOT TURN OVER THE BOOKLET UNTIL YOU ARE TOLD TO DO SO.

- | | |
|----------------|------------------|
| 1. apointed | 26. condem |
| 2. commission | 27. absolutely |
| 3. limited | 28. cancel |
| 4. arival | 29. carreer |
| 5. comunity | 30. bullitin |
| 6. variety | 31. oposition |
| 7. agency | 32. ammunition |
| 8. distrubute | 33. survay |
| 9. hereafter | 34. energy |
| 10. conference | 35. sundery |
| 11. salery | 36. visinity |
| 12. preveous | 37. sheriff |
| 13. colusion | 38. pamflet |
| 14. director | 39. conserning |
| 15. essential | 40. security |
| 16. cilinder | 41. necessity |
| 17. astablish | 42. expences |
| 18. quarrel | 43. testomony |
| 19. premeum | 44. avalable |
| 20. relize | 45. stating |
| 21. gratitude | 46. courtesy |
| 22. sugestion | 47. naturaly |
| 23. consinment | 48. apoligy |
| 24. revenue | 49. invilid |
| 25. inferier | 50. construction |

TURN THE PAGE AND KEEP RIGHT ON WORKING.

- | | |
|-------------------|-------------------|
| 51. secratary | 76. deploma |
| 52. duplacate | 77. abundant |
| 53. gosple | 78. tedious |
| 54. traffic | 79. dilegent |
| 55. captian | 80. acquainted |
| 56. sanatary | 81. resonable |
| 57. specimen | 82. customery |
| 58. accomodate | 83. muslin |
| 59. Sabbath | 84. investagation |
| 60. consious | 85. temperary |
| 61. athority | 86. indignant |
| 62. owing | 87. wretched |
| 63. emergancy | 88. unusal |
| 64. opperation | 89. definate |
| 65. syllable | 90. garrulous |
| 66. talant | 91. allowence |
| 67. nourish | 92. appropriate |
| 68. ignorence | 93. remembrance |
| 69. behavior | 94. presense |
| 70. exceedingly | 95. caisson |
| 71. murmer | 96. appendicitis |
| 72. signiture | 97. convienient |
| 73. guardian | 98. occured |
| 74. interrupt | 99. intuition |
| 75. conggradulate | 100. greatful |

STOP HERE AND WAIT FOR FURTHER INSTRUCTIONS.

Do not make
any marks in
this booklet

LANGUAGE USAGE

Mark your answers
on the separate
Answer Sheet

Part II SENTENCES

DIRECTIONS

This test consists of a series of sentences, each divided into five parts lettered A, B, C, D, and E. You are to look at each and decide which of the lettered parts have errors in grammar, punctuation or spelling. When you have decided which parts are wrong, fill in the space under those letters after that item number on the separate Answer Sheet.

EXAMPLE

Ain't we / going to the / office / next week / at all.

A B C D E

SAMPLE OF ANSWER SHEET

A	B	C	D	E
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The space under A has been filled in because "ain't" is wrong; the space under E has been blackened because "at all" should be followed by a question mark. There is nothing wrong in Parts B, C and D, so the spaces under those letters have been left blank.

Some of the sentences are entirely correct. Others may have from **one** to **five** parts wrong. For each part of each sentence which you think is wrong, blacken the space under that letter on the separate Answer Sheet.

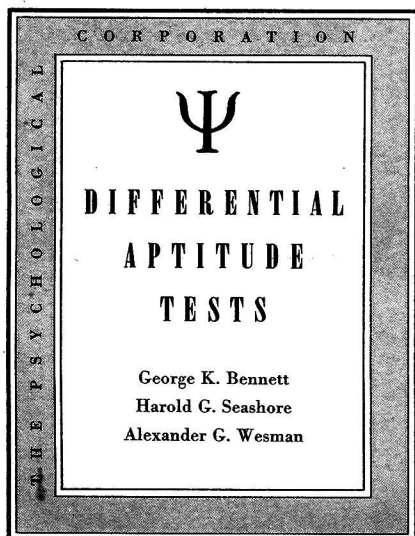
DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO.

1. Where / did you / stop at / on your trip / to Chicago.
A B C D E
2. Was it / him / who / got burned / when the boiler bursted?
A B C D E
3. The dog laid / sleeping / after chasing John and I / with hardly no / time out.
A B C D E
4. I doubt / if Jack / has fewer / than sixteen / baseball bats.
A B C D E
5. "It is me," / said Will, / as his mother / answered / his knock.
A B C D E
6. If I were / he, / I'd be / sure / of myself.
A B C D E
7. I could / of won / if I had stood / in the game / a little longer.
A B C D E
8. If John were here / he'd sure / have done / faster work / than Fred.
A B C D E
9. I can't hardly / raise my hand / more than / three foot / above the board.
A B C D E
10. I sung / until / I was hoarse, / and then drunk / a quart of water.
A B C D E
11. Neither money / or fame / would of been / alright as payment / for such a job.
A B C D E
12. I don't understand / how anyone / could admire / a person as careless / as her.
A B C D E
13. Is it / I / whom / they / are calling?
A B C D E
14. I didn't feel / good enough / to attend / the conference / last tuesday.
A B C D E
15. I did / pretty good / in history / on last / week's quizzes.
A B C D E
16. Her father replied / "I feel / that Carol / is some better / than Mary."
A B C D E
17. The rivers raised / ten feet / after the rains, / overflowing / their banks.
A B C D E
18. I thought / you was through / doing / your work / all ready.
A B C D E
19. We O.K.'d / there proposal / that we cooperate / for our / mutual profit.
A B C D E
20. The writer / made / an illusion / to his hero's / earlier exploits.
A B C D E
21. I don't like / those kind / of peaches; / give me some / of the ripe ones.
A B C D E
22. Leave / me go / with John / and she / to the show.
A B C D E
23. He is / one of those men / who work / well / and long.
A B C D E
24. James said, / "Work, / not words, / is what / is needed."
A B C D E
25. None of the books / were / worth reading / more then / once or twice.
A B C D E

GO ON TO THE NEXT PAGE AND KEEP RIGHT ON WORKING.

26. They / nearly were / starved / before they landed / somewhere in Florida.
A B C D E
27. She / got hurt / when the dish / busted / in her hands.
A B C D E
28. I thought it / was him, / and it sure / looked like him / from this distance.
A B C D E
29. Who / do you / think / your / talking about?
A B C D E
30. The number / of volunteers / were / seldom ever / enough.
A B C D E
31. One issue of bonds / were / distributed / between / three banks.
A B C D E
32. There goes / John and Bill, / fighting / like / always.
A B C D E
33. Is it / me / who / you wanted / to see?
A B C D E
34. I don't see / as good / as Tom, / my friend / can.
A B C D E
35. Paul had / promised / to return / the book / in two weeks.
A B C D E
36. The man who / everybody likes / is one / who / they can trust.
A B C D E
37. He asked / we three, / "where / is the folks / which lived here?"
A B C D E
38. I've had / less headaches / since I / went to sleep / earlier.
A B C D E
39. The books / laid / in the grass / all day / and got wet.
A B C D E
40. You can / leave the house / in an hour / if you feel / good.
A B C D E
41. I will / be real glad / to visit you / whenever / you would prefer.
A B C D E
42. The bible / is one / of the best books / their / are for serious study.
A B C D E
43. Each of / these flowers / look best / in a different / sort of a plot.
A B C D E
44. We allways turn / to who / we use to / know. the old friend / is best.
A B C D E
45. Being that / a pipe bust, / we hadn't / hardly / any water.
A B C D E
46. He had smoked / their tobacco, / drank their wine / and heard / their tales.
A B C D E
47. A man, / who beats his wife, / is considered depraved / by people / nowadays.
A B C D E
48. We seldom ever / have to / watch close / in our kind / of a job.
A B C D E
49. If it was possible, / we would of / gave him / the workers / which he wanted.
A B C D E
50. Neither Jones / nor Smith / are / the men / for that sort of a job.
A B C D E

THIS IS THE END OF THE TEST. CLOSE YOUR BOOKLET.



Columbus - Ohio

ABSTRACT REASONING

FORM A

Do not open this booklet until you are told to do so.

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In the space after Form, print an A.

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ABSTRACT REASONING

DIRECTIONS

Mark your answers
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Answer Sheet

In this test you will see rows of designs or figures like those on this page. Each row is a problem. You are to mark your answers on a separate Answer Sheet as shown in the samples below.

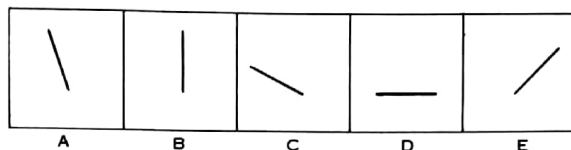
Each row consists of four figures called Problem Figures and five called Answer Figures. The four Problem Figures make a series. You are to find out which one of the Answer Figures would be the next, or the fifth one in the series.

EXAMPLE X

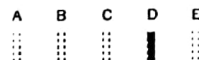
PROBLEM FIGURES



ANSWER FIGURES

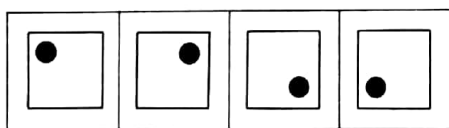


Note that the lines in the Problem Figures are falling down. In the first square the line stands straight up, and as you go from square to square the line falls more and more to the right. In the fifth square the line would be lying flat. So the answer is D, which is indicated on your Answer Sheet by filling in the little space below D, like this

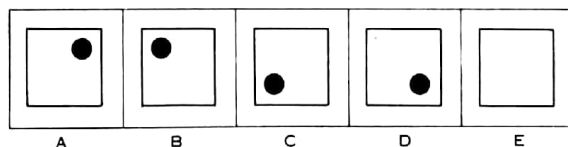


EXAMPLE Y

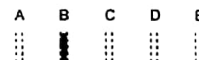
PROBLEM FIGURES



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Study the position of the black dot. Note that it keeps moving around the square clockwise: upper left corner, upper right corner, lower right corner, lower left corner. In what position will it be seen next? It will come back to the upper left corner. Therefore, B is the answer, and you would mark your Answer Sheet like this

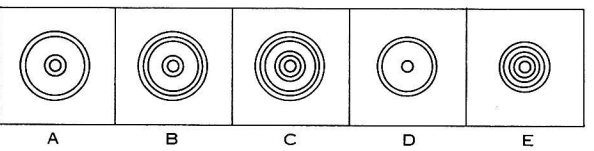
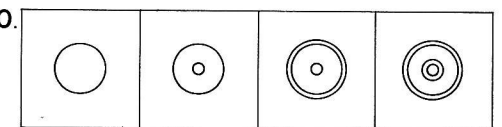
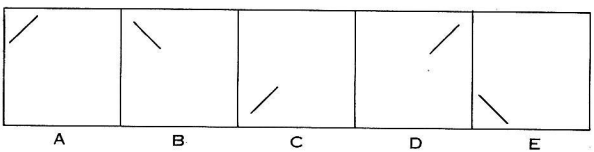
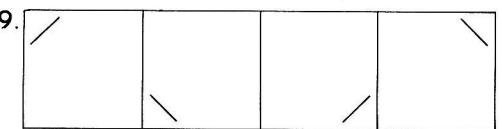
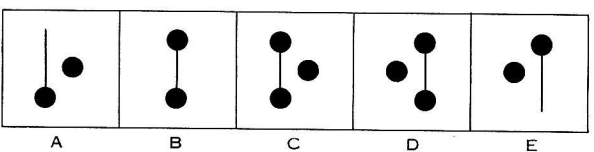
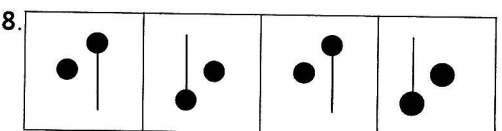
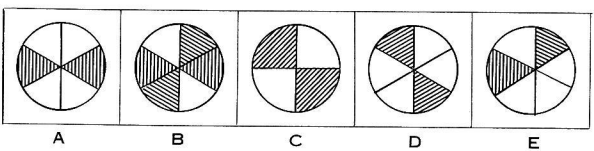
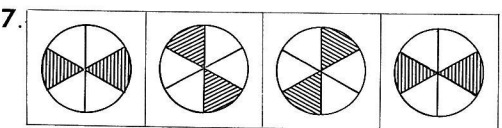
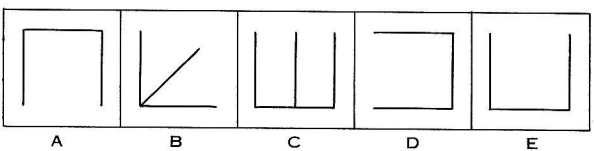
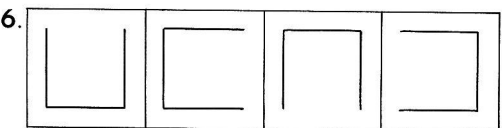
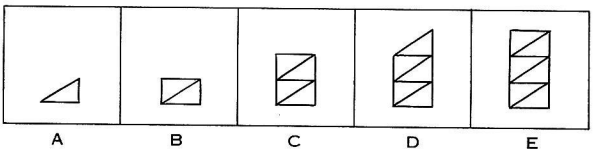
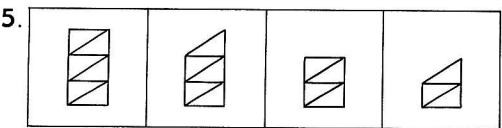
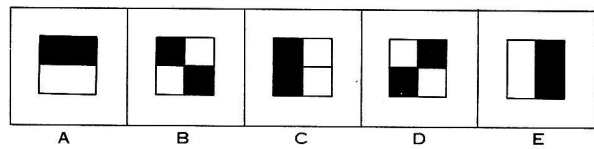
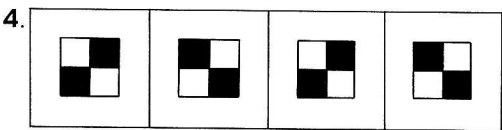
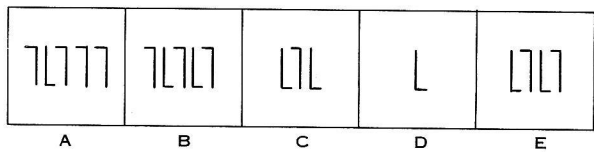
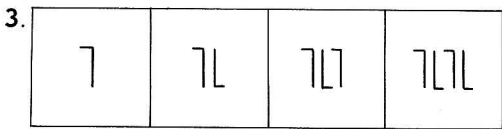
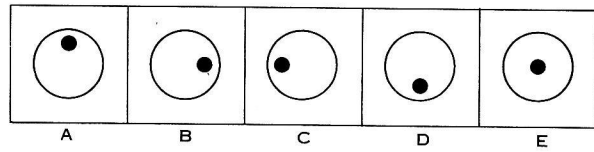
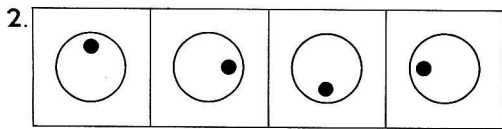
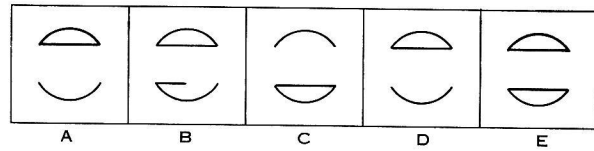
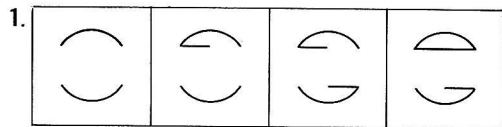


Remember—You are to select the one figure from among the Answer Figures which belongs next in the series.

DO NOT TURN OVER THE BOOKLET UNTIL YOU ARE TOLD TO DO SO.

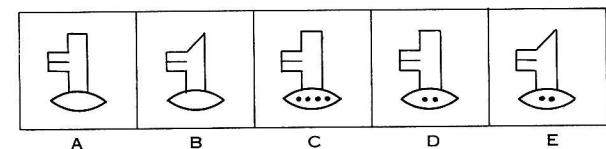
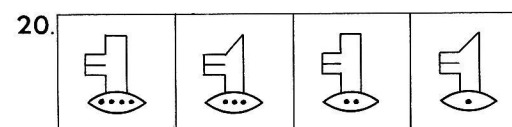
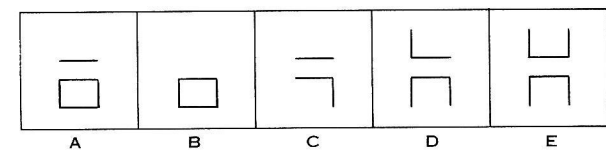
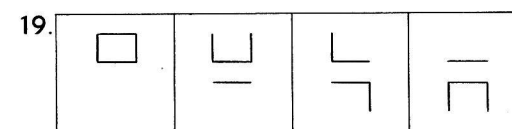
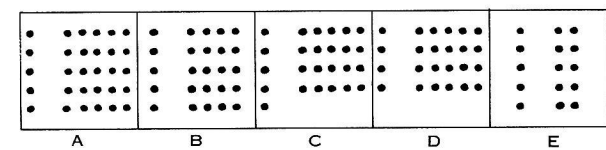
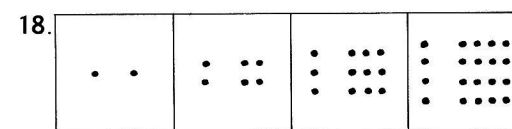
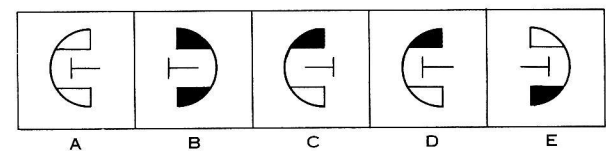
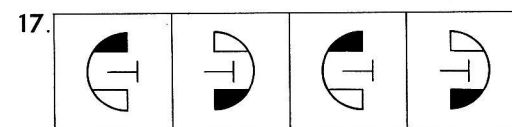
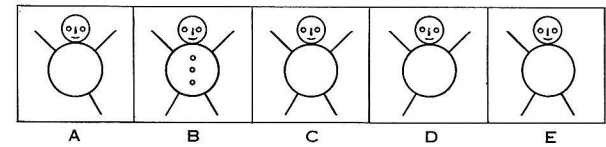
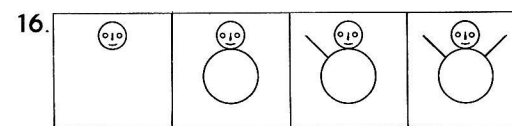
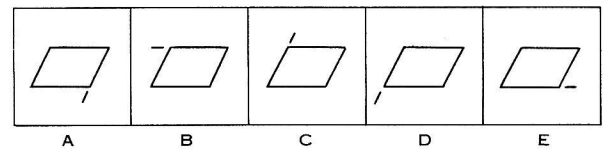
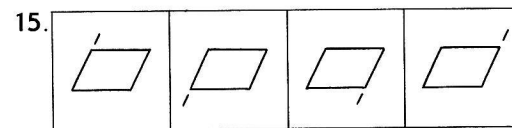
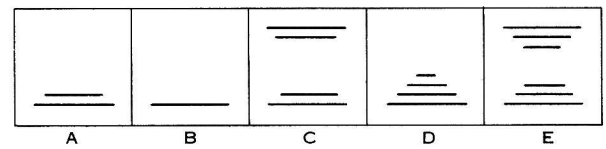
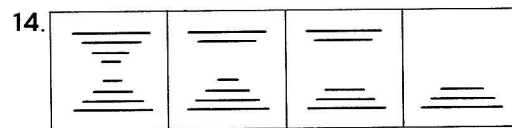
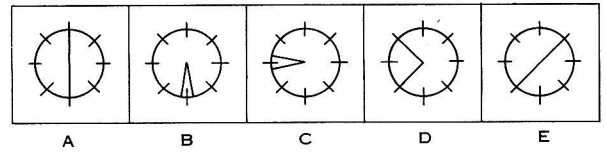
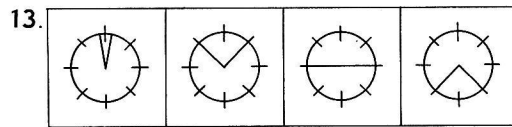
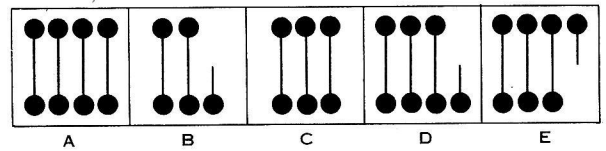
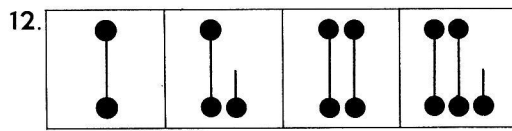
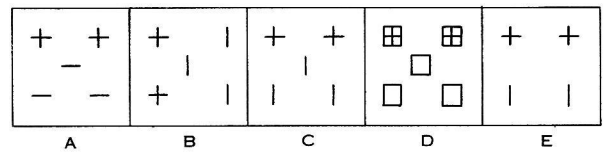
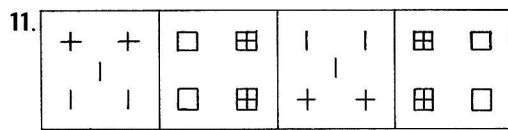
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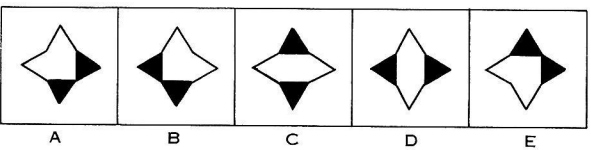
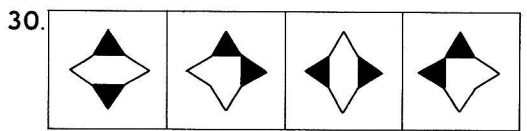
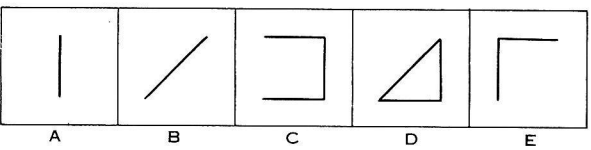
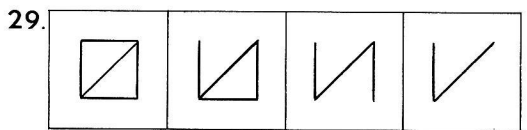
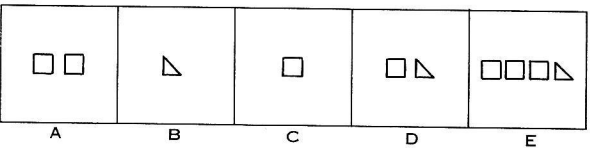
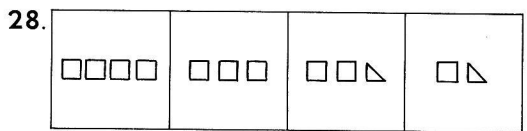
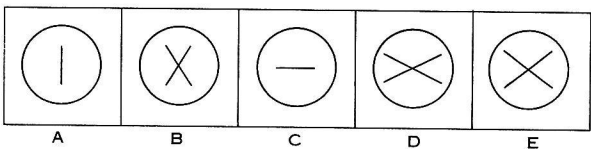
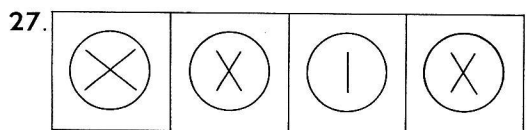
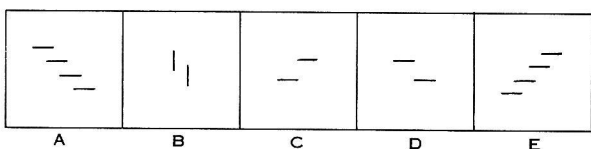
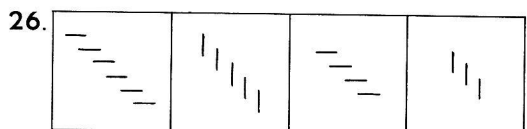
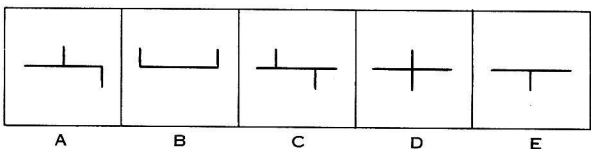
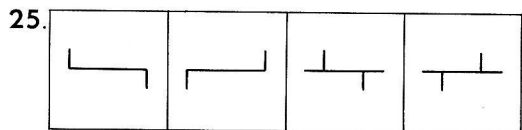
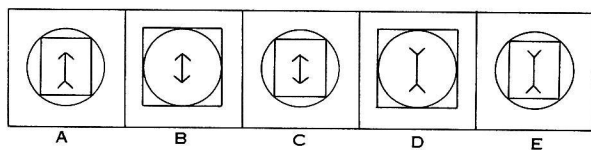
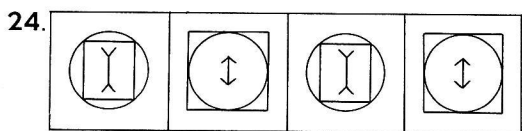
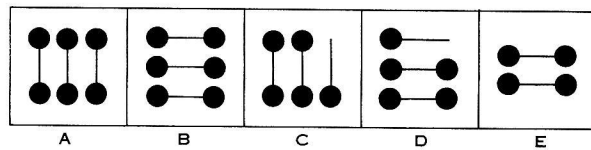
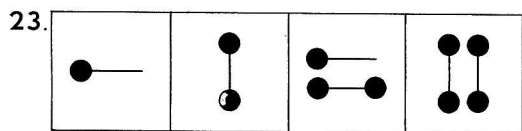
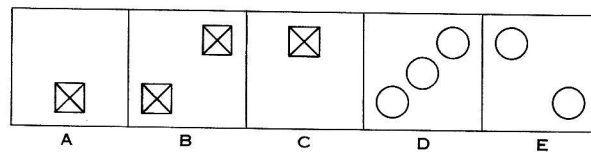
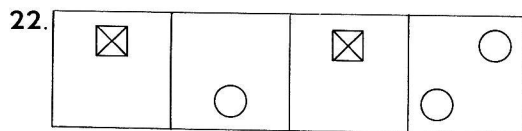
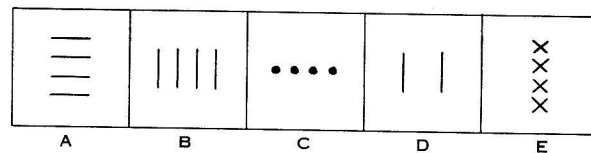
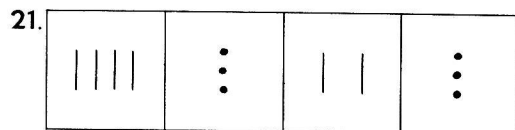
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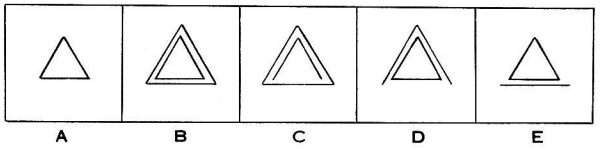
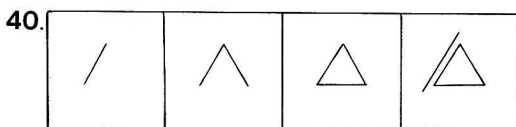
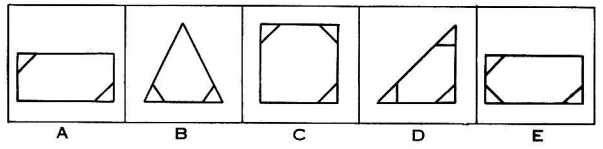
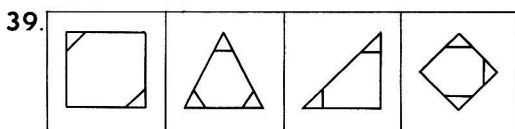
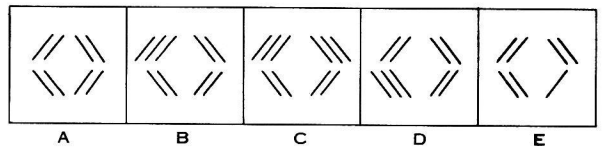
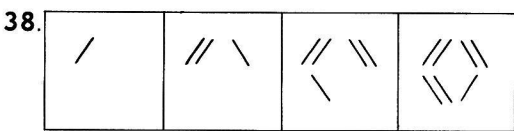
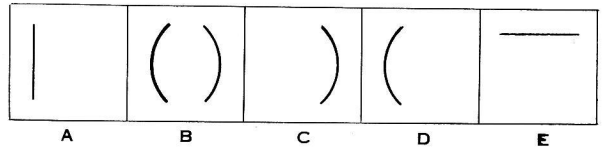
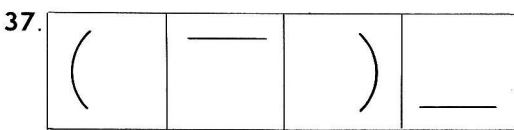
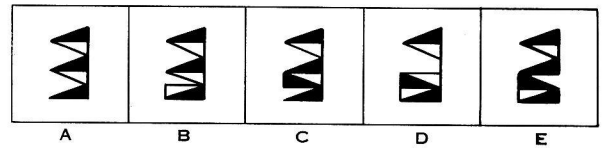
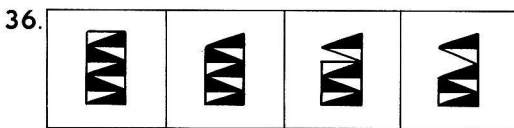
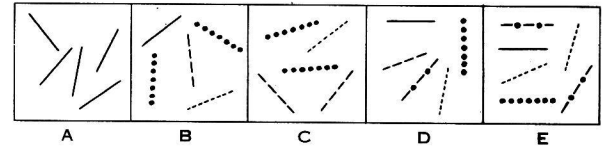
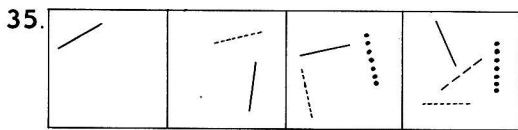
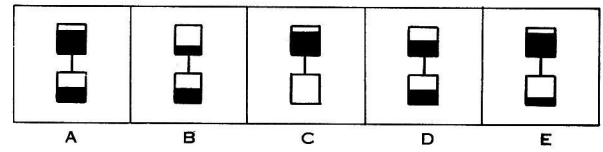
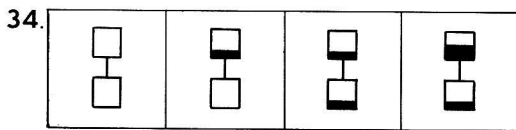
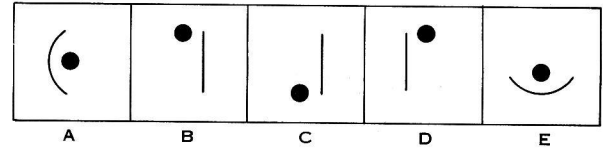
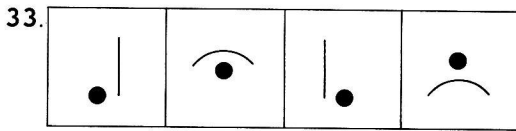
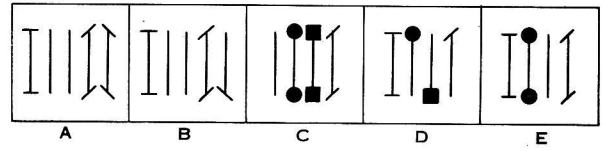
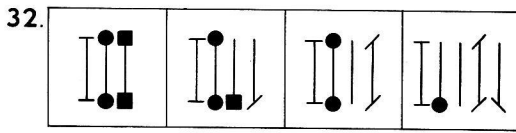
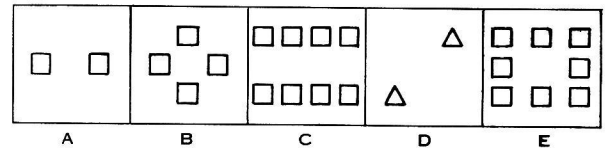
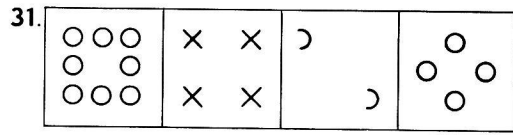
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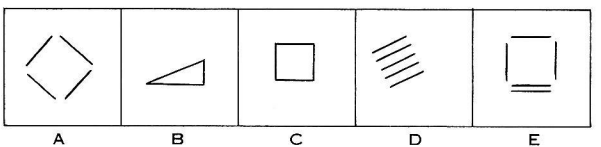
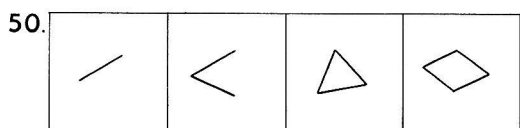
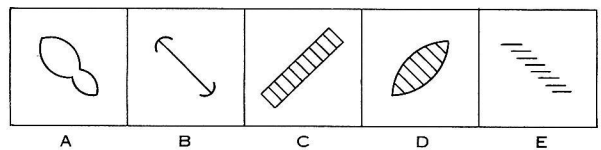
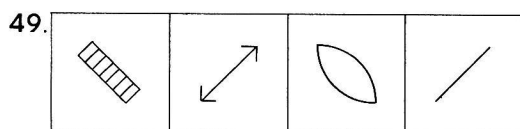
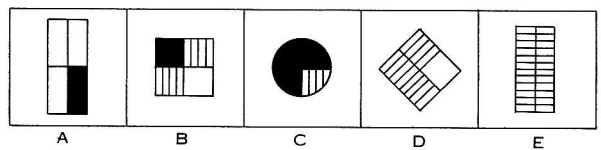
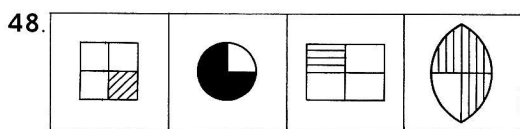
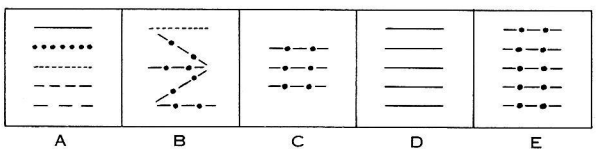
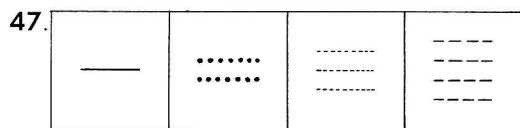
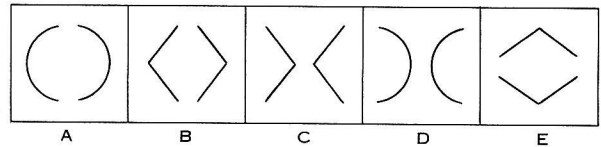
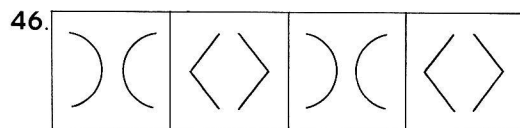
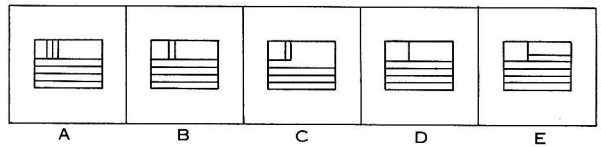
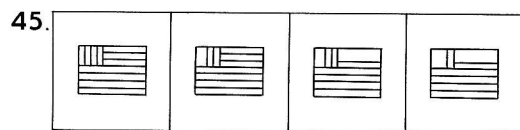
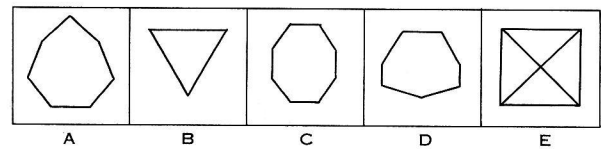
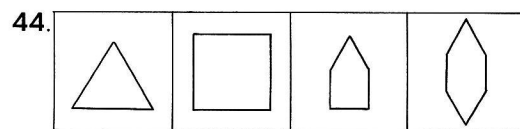
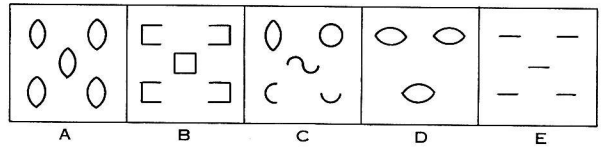
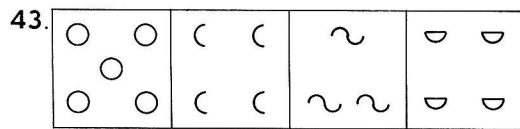
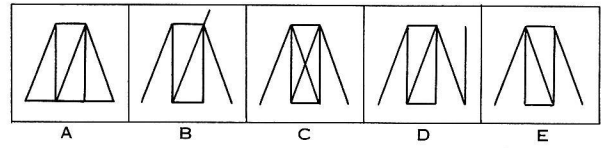
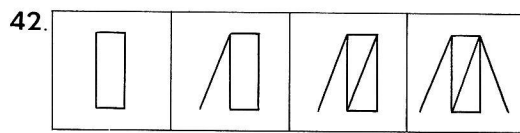
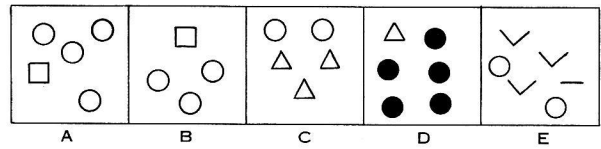
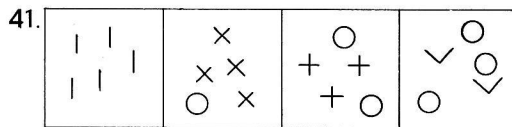
PROBLEM FIGURES

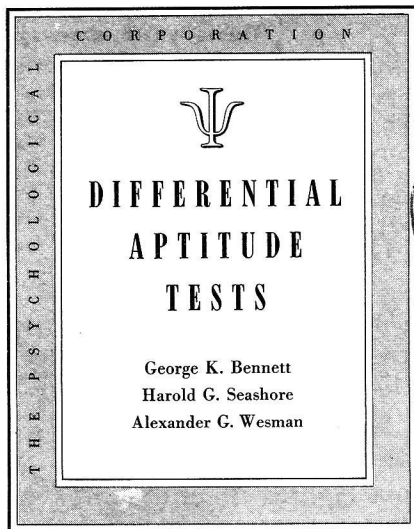
ANSWER FIGURES



PROBLEM FIGURES

ANSWER FIGURES





MECHANICAL REASONING

FORM A

Do not open this booklet until you are told to do so.

On your SEPARATE ANSWER SHEET, print your name, address, and other requested information in the proper spaces.

In the space after **Form**, print an **A**.

Then wait for further instructions.

DO NOT MAKE ANY MARKS IN THIS BOOKLET

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The Psychological Corporation
522 Fifth Avenue
New York 18, N. Y.

Do not make
any marks in
this booklet

Mark your answers
on the separate
Answer Sheet

MECHANICAL REASONING

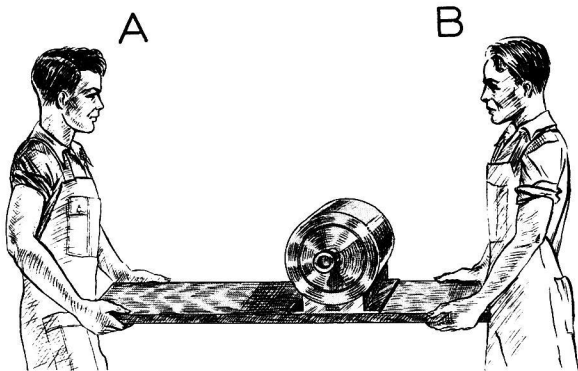
DIRECTIONS

This test consists of a number of pictures and questions about those pictures. Look at Example X on this page to see just what to do. Example X shows a picture of two men carrying a machine part on a board and asks, "Which man has the heavier load? If equal, mark C." Man "B" has the heavier load because the weight is closer to him than to man "A," so on the separate Answer Sheet you would fill in the space under B, like this →

A	B	C
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

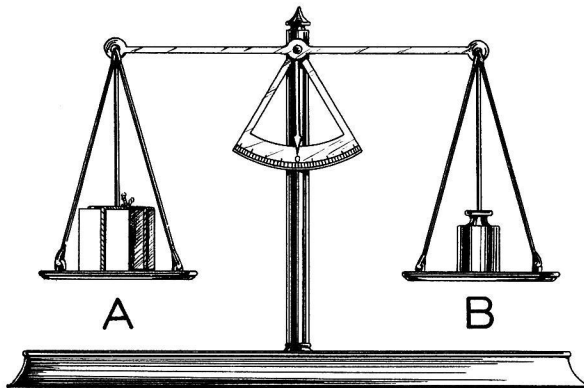
Now look at Example Y. The question asks, "Which weighs more? If equal, mark C." As the scale is perfectly balanced, "A" and "B" must weigh the same, so you would blacken the space under C on your separate Answer Sheet, like this →

A	B	C
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



X

Which man has the heavier load?
(If equal, mark C.)

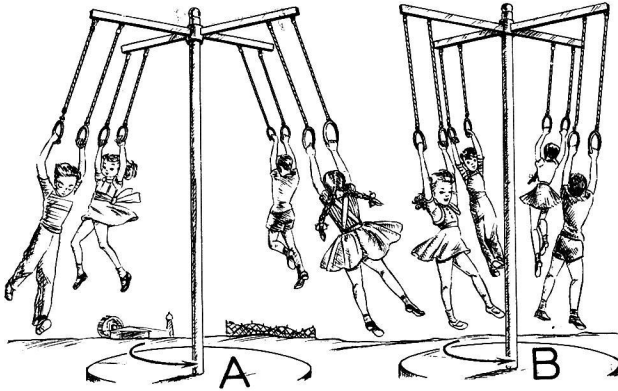


Y

Which weighs more?
(If equal, mark C.)

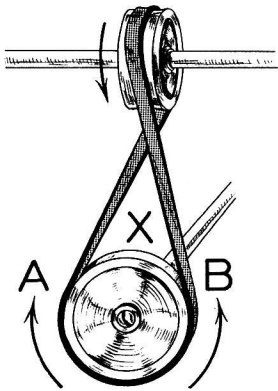
On the following pages there are more pictures and questions. Read each question carefully, look at the picture, and mark your answer on the separate Answer Sheet. Do not forget that there is a third choice for every question.

DO NOT TURN OVER THE BOOKLET UNTIL YOU ARE TOLD TO DO SO.



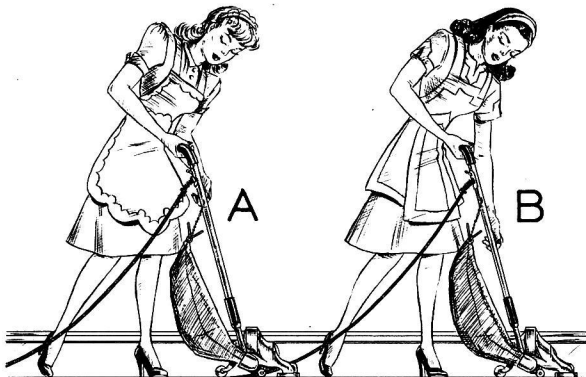
1

In which picture are the children whirling faster?
(If equal, mark C.)



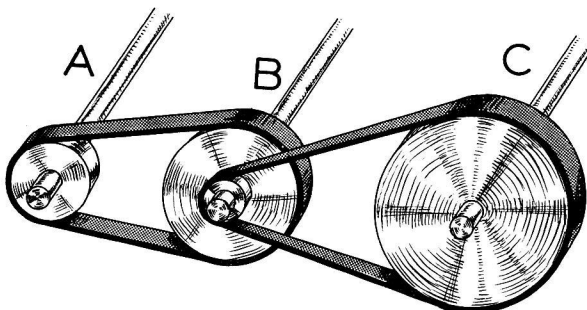
2

When the top pulley turns in the direction shown, which way will the lower pulley turn?
(If either, mark C.)



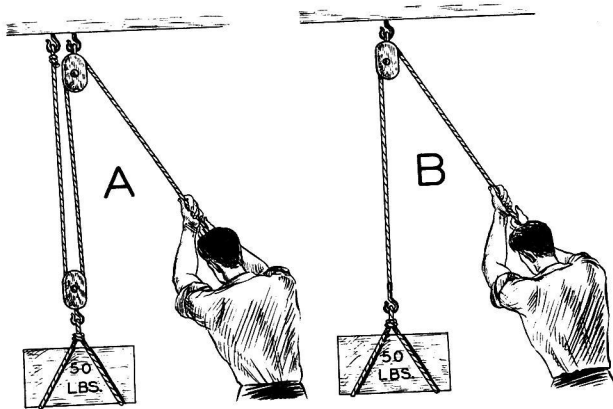
3

Which girl can lift the cleaner more easily?
(If equal, mark C.)



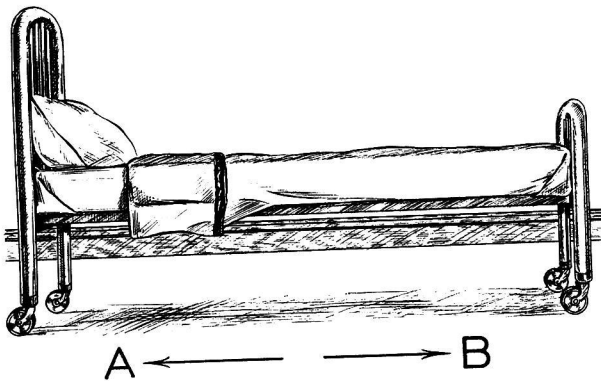
4

Which shaft will turn most slowly?



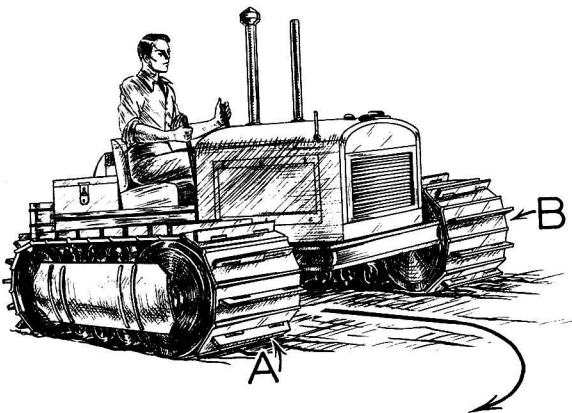
5

Which man must pull harder to lift the weight?
(If equal, mark C.)



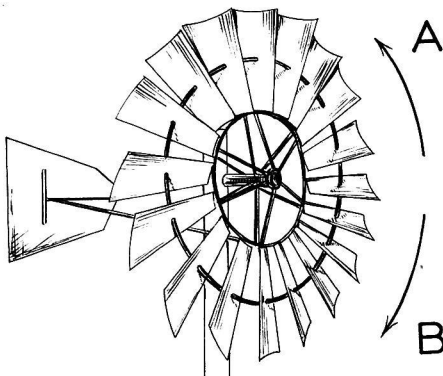
6

Which way has this bed just been rolled?
(If either, mark C.)



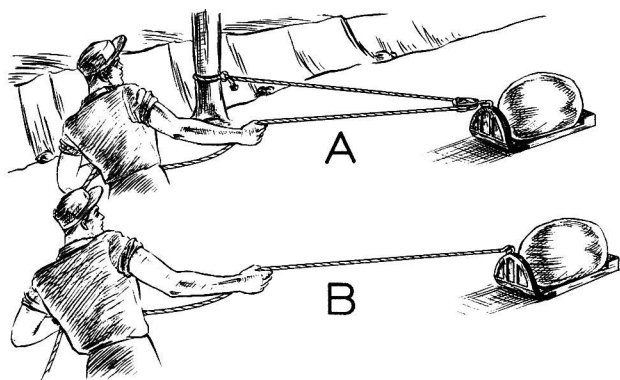
7

Which tread must stop for the tractor to turn in the direction shown?
(If neither, mark C.)



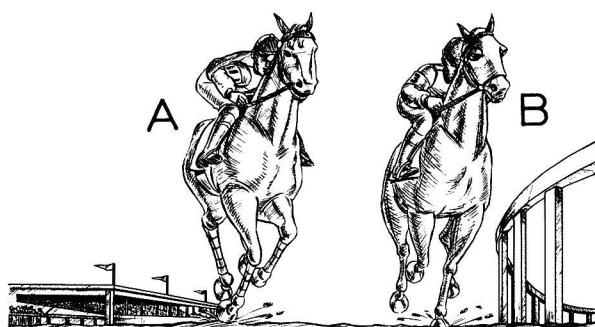
8

In which direction is this windmill more likely to turn?
(If either, mark C.)



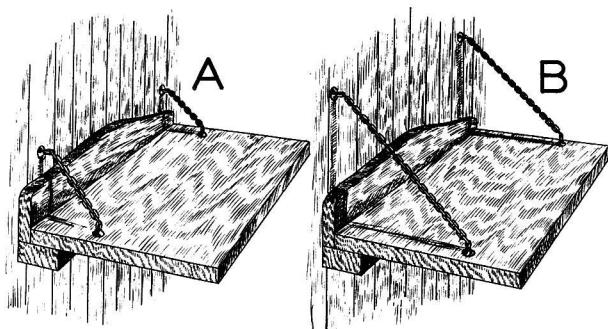
9

Which man has to pull harder?
(If equal, mark C.)



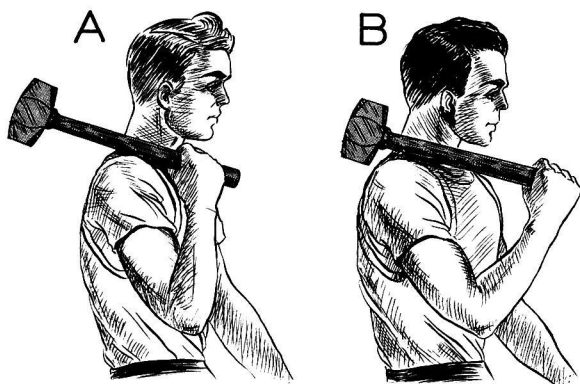
10

Which horse must go faster to
hold his place on the turn?
(If equal, mark C.)



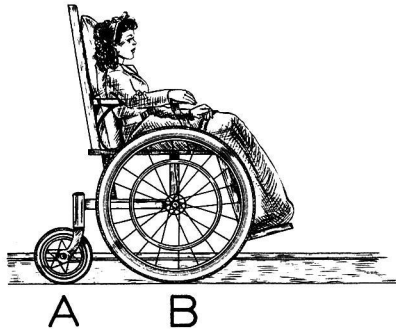
11

Which shelf is stronger?
(If equal, mark C.)



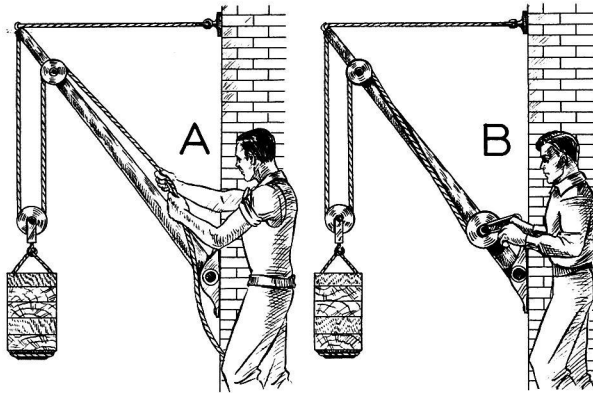
12

Which is the harder way to carry
the hammer?
(If equal, mark C.)



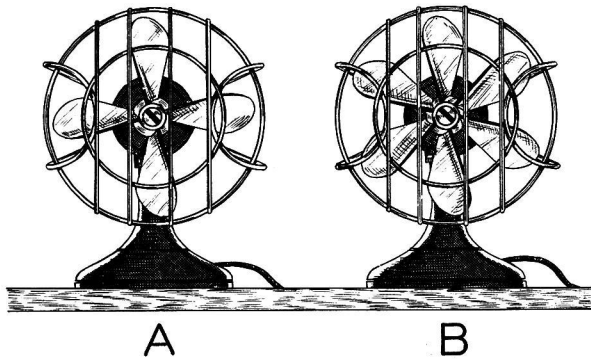
13

Which wheel will turn faster?
(If equal, mark C.)



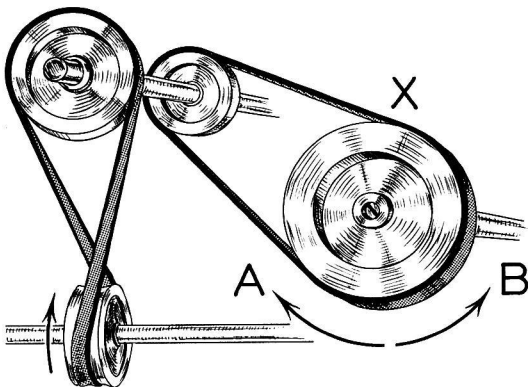
14

Which man can lift the weight
more easily?
(If equal, mark C.)



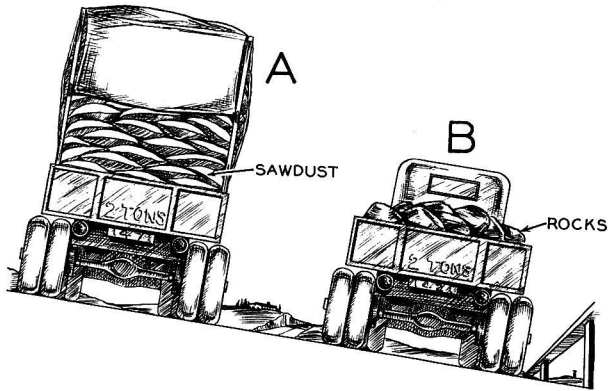
15

Which fan needs the more power-
ful motor?
(If equal, mark C.)



16

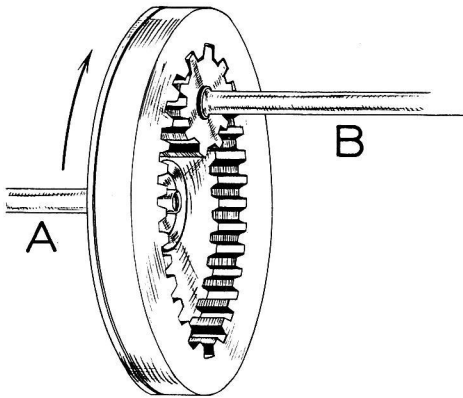
Which way will pulley "X" turn?
(If either, mark C.)



17

Which truck will turn over more easily?

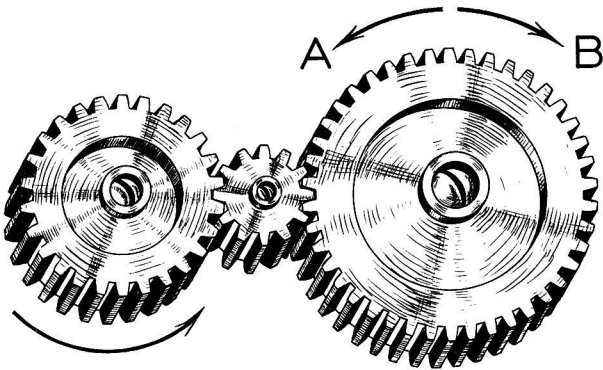
(If equal, mark C.)



18

Which shaft turns faster?

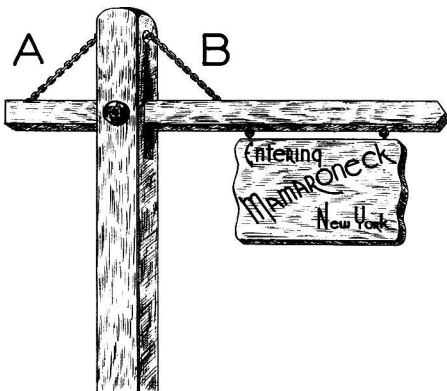
(If equal, mark C.)



19

When the left-hand gear turns in the direction shown, which way does the right-hand one turn?

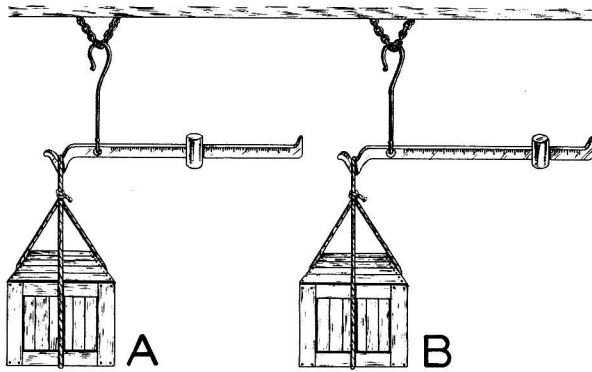
(If either, mark C.)



20

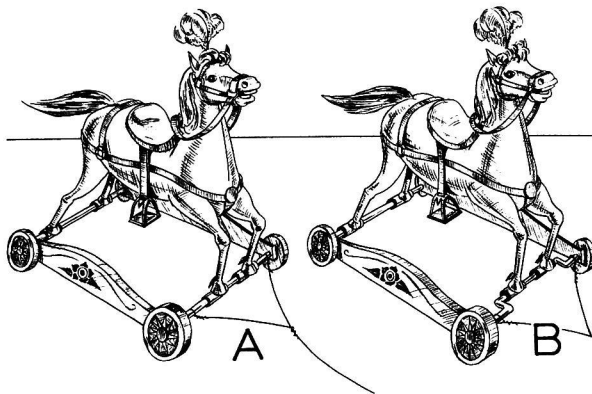
Which chain alone will hold up the sign?

(If either, mark C.)



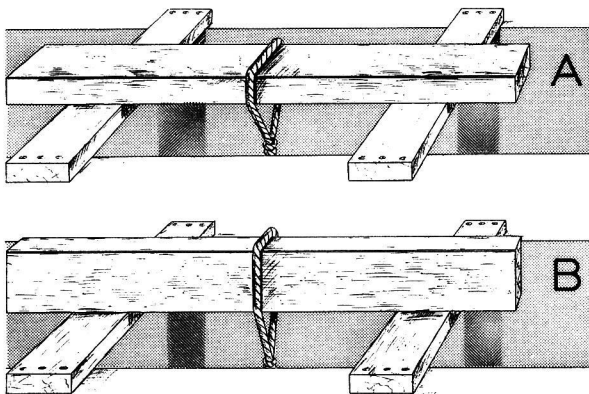
21

Which box weighs more?
(If equal, mark C.)



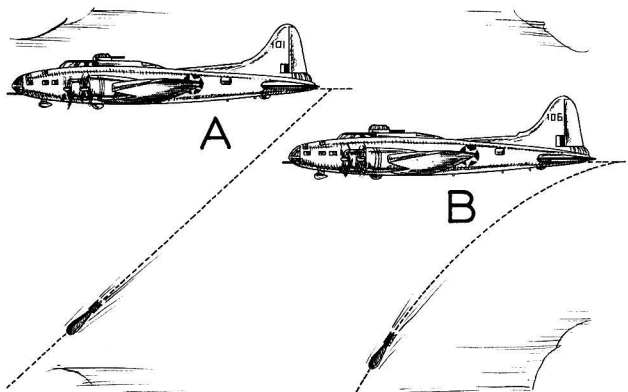
22

Which horse will jump more
when it is pulled?
(If equal, mark C.)



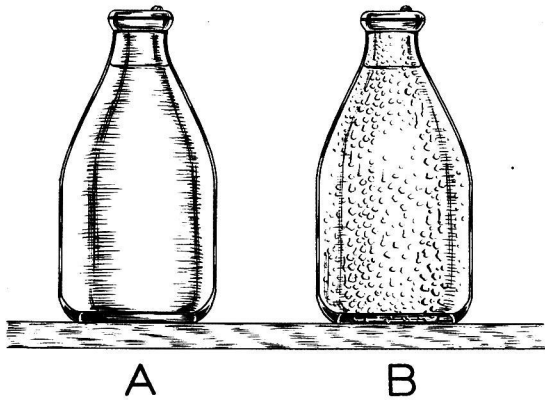
23

In which picture can you safely
put a heavier weight on the rope?
(If equal, mark C.)



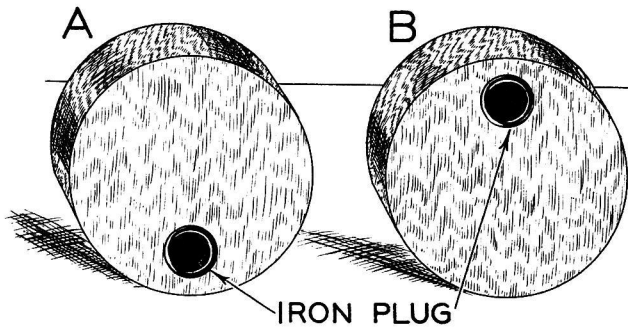
24

Which drawing shows how a
bomb really falls?
(If both, mark C.)



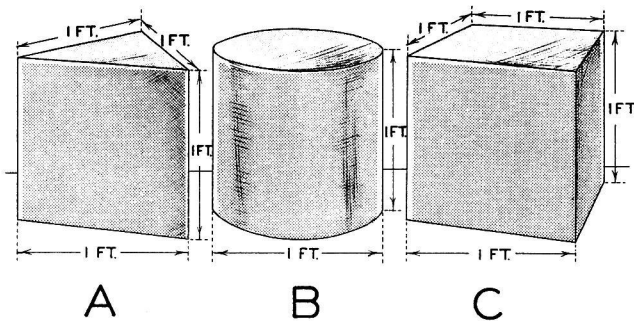
25

Which bottle has just been taken from the refrigerator?
(If neither, mark C.)



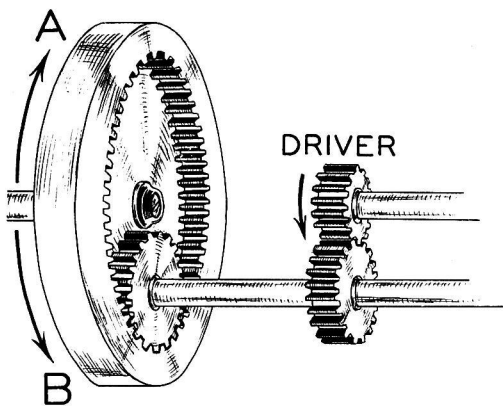
26

Which picture shows how this wooden circle will stand?
(If neither, mark C.)



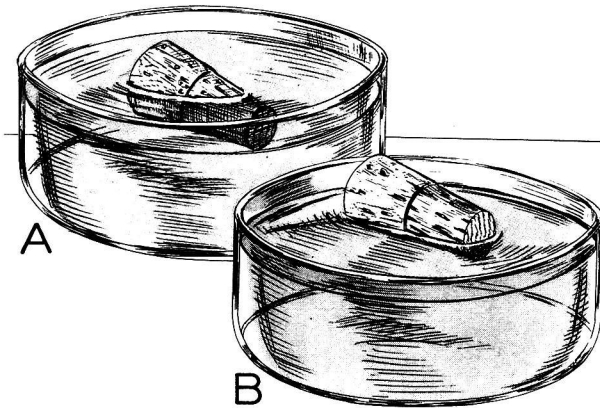
27

Which weighs least?



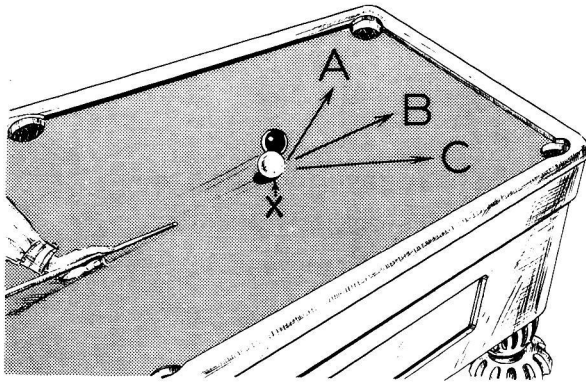
28

When the driver turns in the direction shown, which way will the left-hand gear turn?
(If either, mark C.)



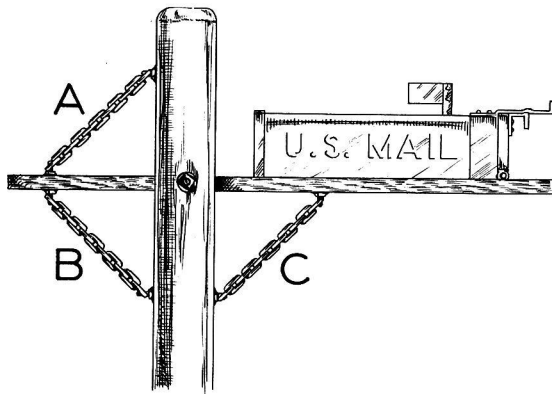
29

Which liquid is heavier?
(If equal, mark C.)



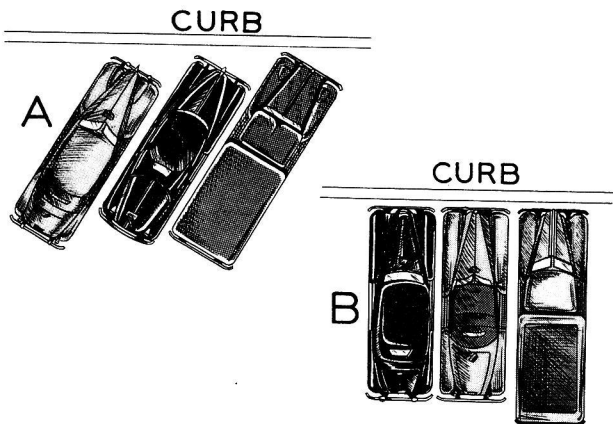
30

After hitting the black ball, which
way will ball "X" go?



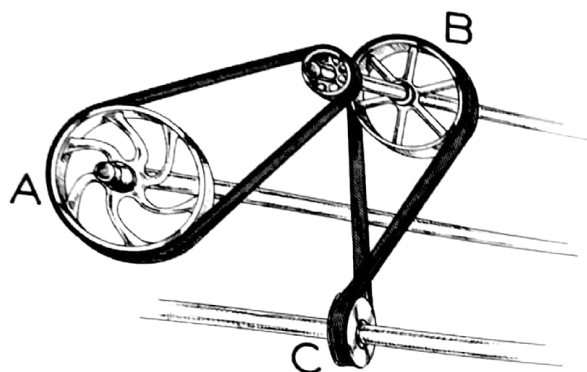
31

Which one piece of chain is
needed to support the mail box?



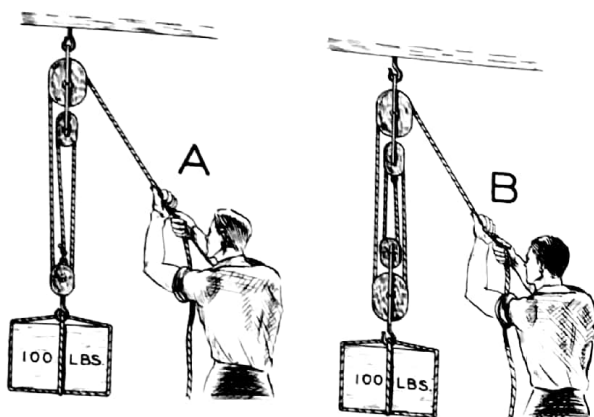
32

Which way can more cars be
parked in a block?
(If equal, mark C.)



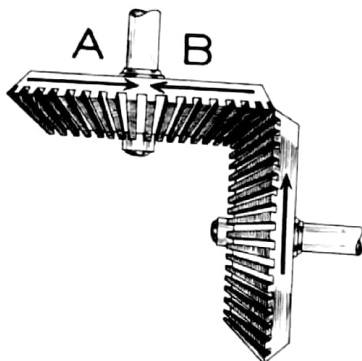
33

Which shaft will turn most rapidly?



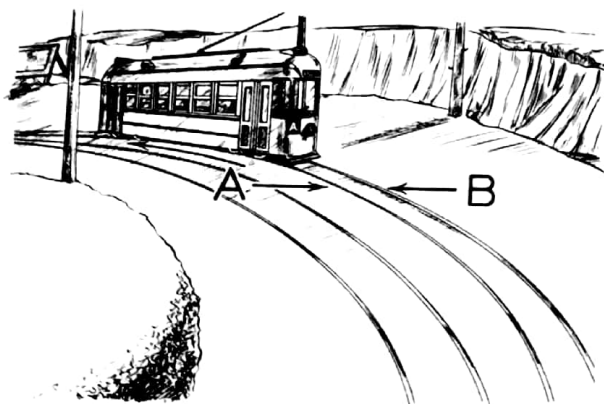
34

Which man can lift the load more easily?
(If equal, mark C.)



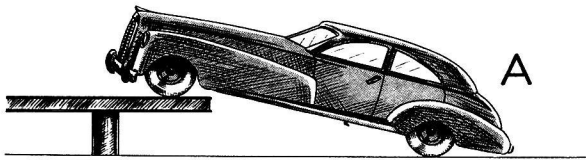
35

When the right-hand gear turns in the direction shown, which way does the top gear turn?
(If neither, mark C.)

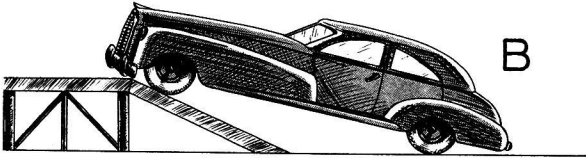


36

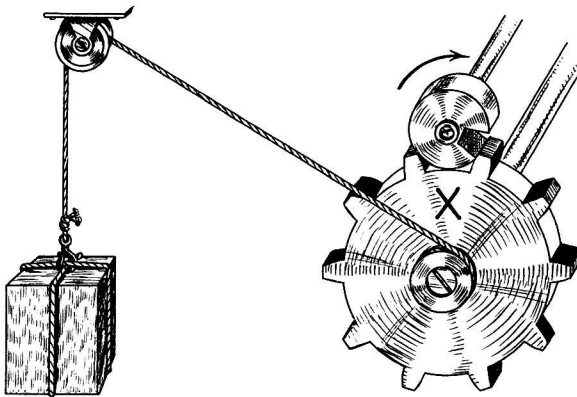
Which rail should be higher?
(If equal, mark C.)



37

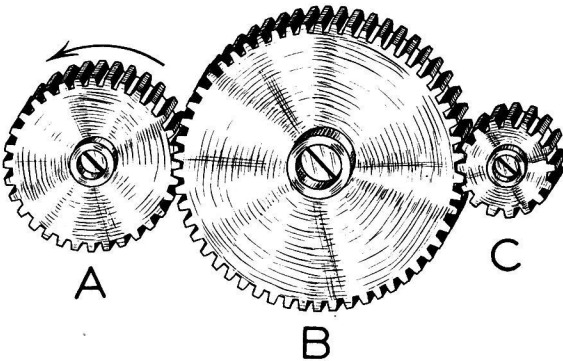


Which car is less likely to roll?
(If equal, mark C.)



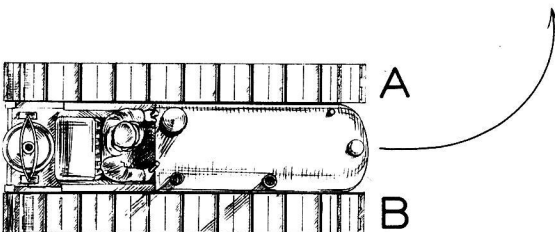
38

The top of wheel "X" will go:
(A) steadily to the right;
(B) steadily to the left;
(C) by jerks to the left.



39

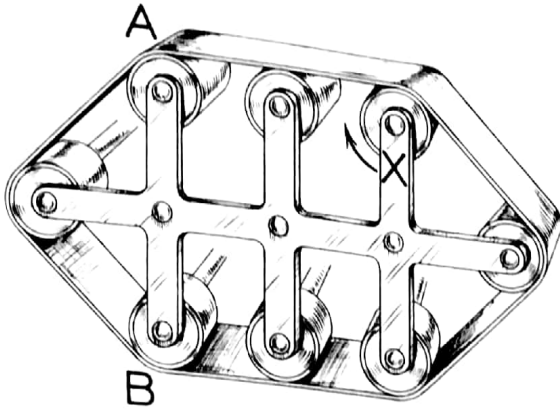
Which gear turns most times in
a minute?



40

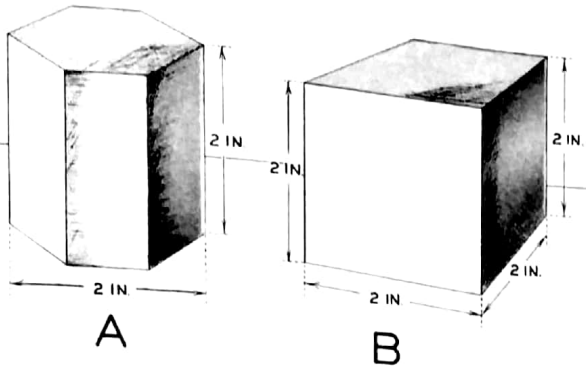
Which tread should be run more
rapidly in order to turn the cater-
pillar tractor in the direction
shown?
(If neither, mark C.)

PUT YOUR ANSWERS ON THE ANSWER SHEET.



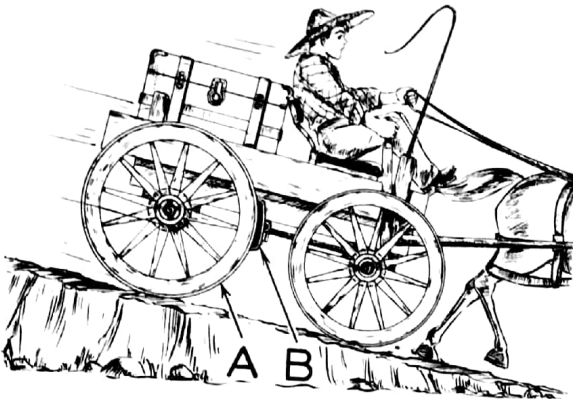
41

Which roller turns the same way as the roller at "X"?
(If both, mark C.)



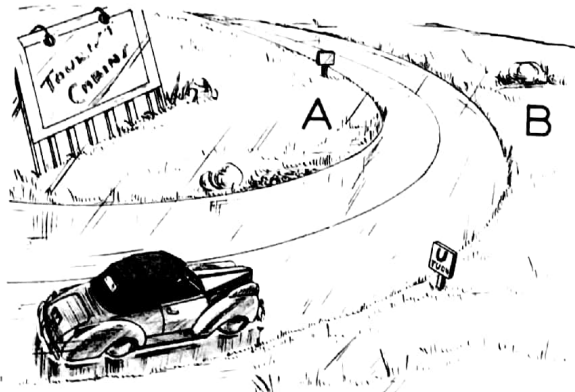
42

Which weighs more?
(If equal, mark C.)



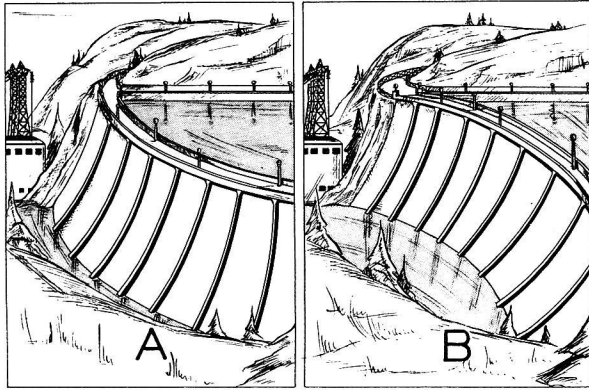
43

When the brake is put on, which part gets hotter?
(If equal, mark C.)



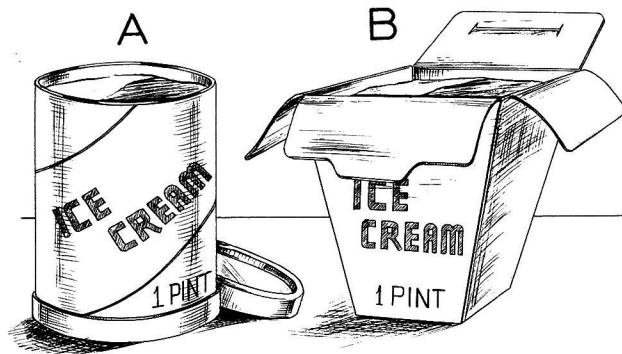
44

Off which side of the road is the car more likely to skid?
(If equal, mark C.)



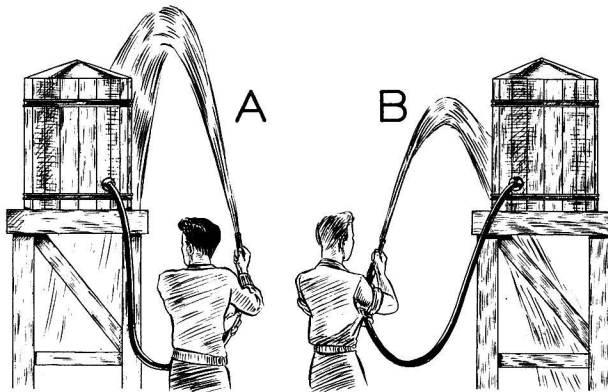
45

Which dam is stronger?
(If equal, mark C.)



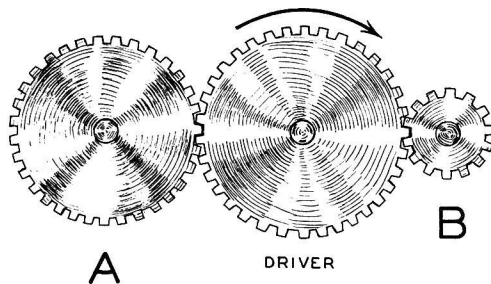
46

In which container will the ice cream stay hard longer?
(If equal, mark C.)



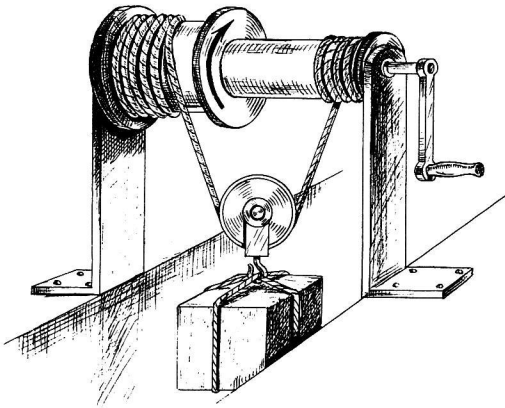
47

Which picture is correct?
(If both, mark C.)



48

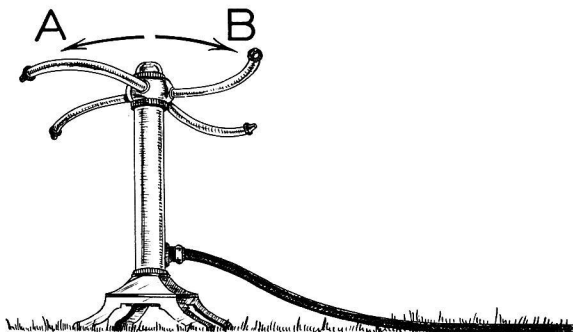
Which gear turns the same way as the driver?
(If neither, mark C.)



49

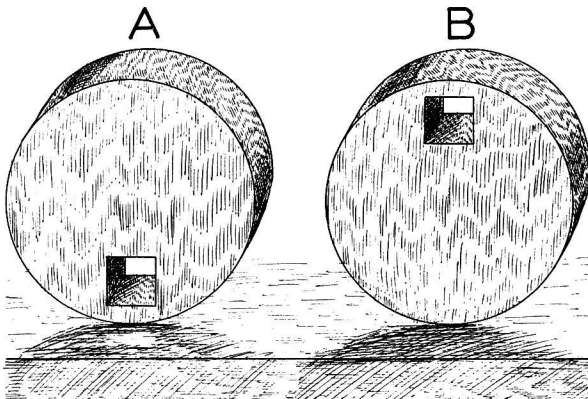
When the windlass is turned in the direction shown, the weight will:

- (A) fall;
- (B) stand still;
- (C) rise.



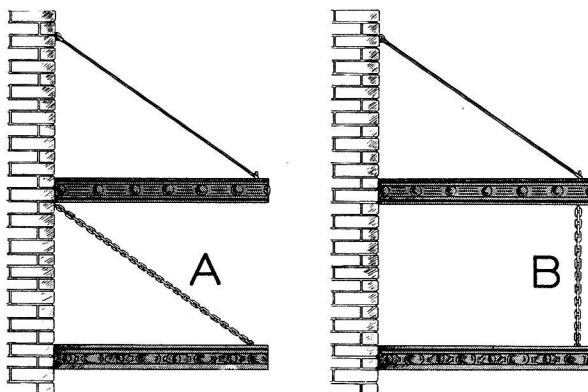
50

When the water is turned on, which way will the sprinkler turn? (If either, mark C.)



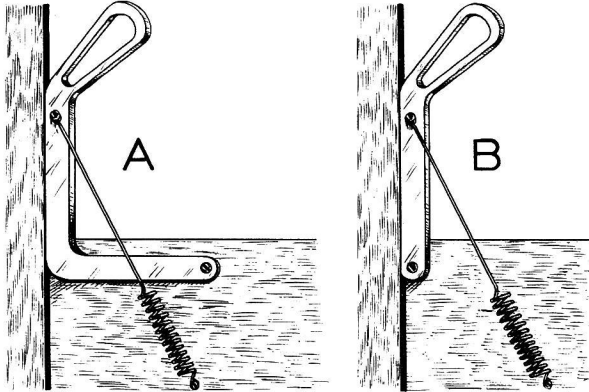
51

Which picture shows how this wooden circle will stand? (If neither, mark C.)



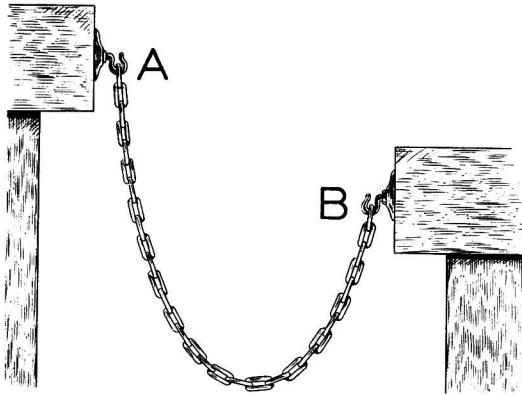
52

Which chain has more strain upon it? (If equal, mark C.)



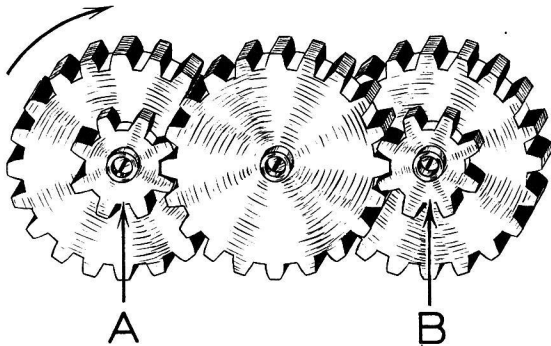
53

In which picture will the spring hold the handle where it now is?
(If both, mark C.)



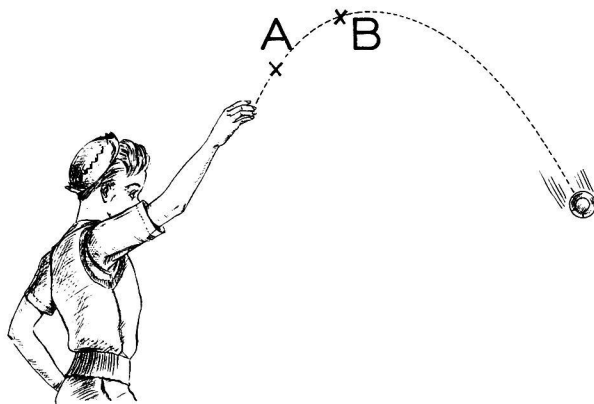
54

Which hook supports more weight?
(If equal, mark C.)



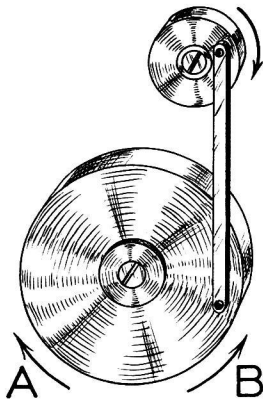
55

Which gear turns slower?
(If equal, mark C.)



56

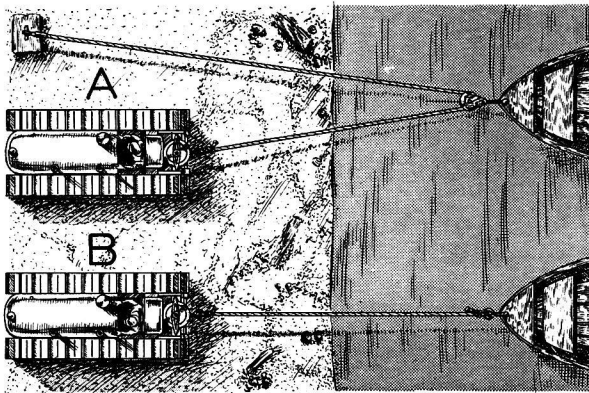
At which point was the ball going faster?
(If equal, mark C.)



57

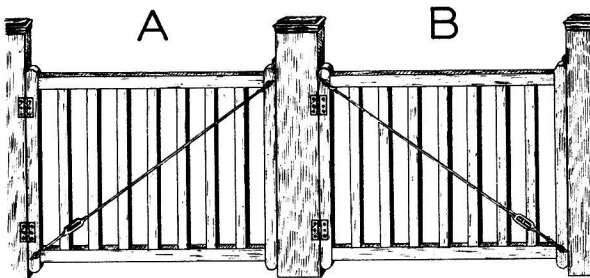
When the small wheel is turned around, the big wheel will:

- (A) turn in direction A;
- (B) turn in direction B;
- (C) move back and forth.



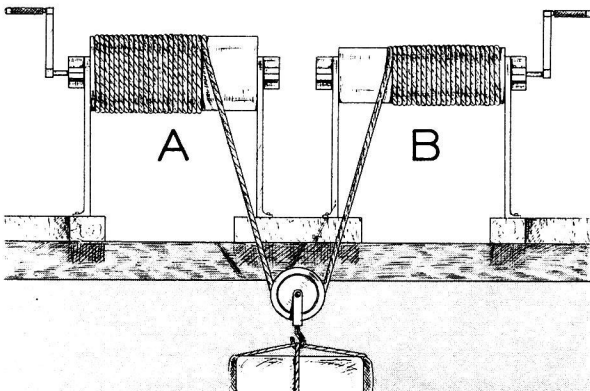
58

Which tractor must go further to pull the boat up on the beach?
(If equal, mark C.)



59

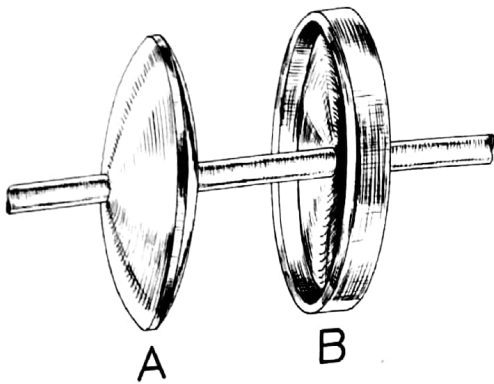
Which gate is better braced?
(If equal, mark C.)



60

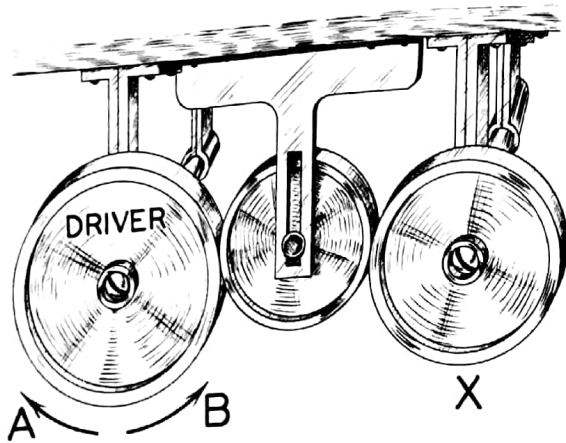
Which windlass will be harder to turn in order to lift the weight?
(If equal, mark C.)

18



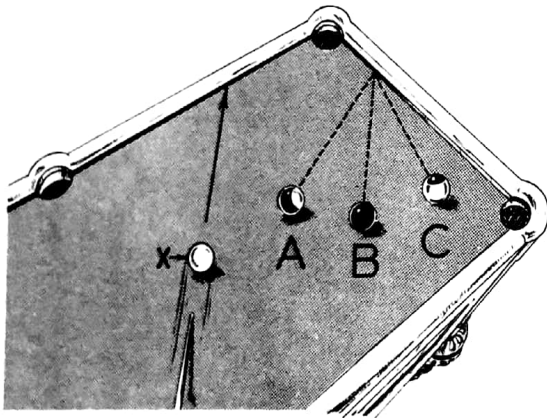
61

Which wheel is safer when spun at high speed?
(If equal, mark C.)



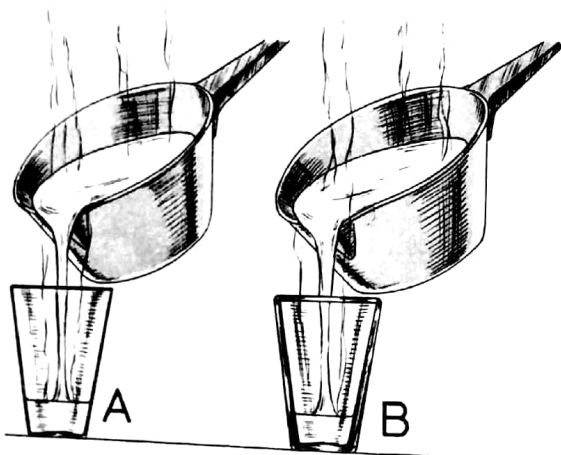
62

Which way must the driver turn to drive the wheel "X"?
(If either, mark C.)



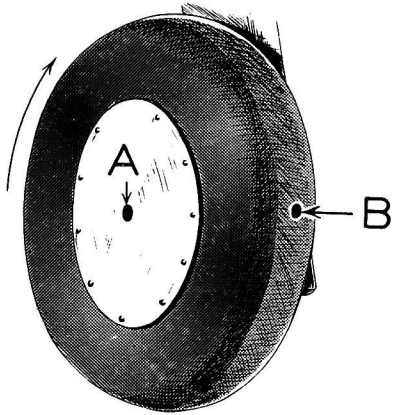
63

Which of these balls will the white ball "X" hit?



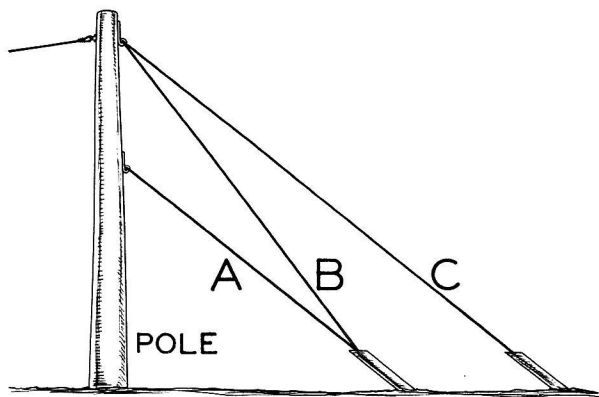
64

Which glass is more likely to break?
(If equal, mark C.)



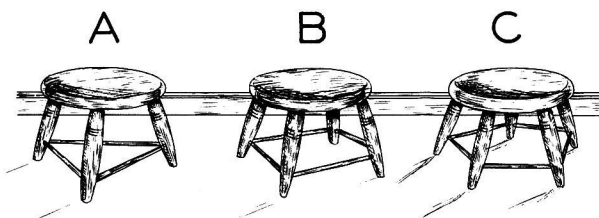
65

Which point moves faster when the wheel turns?
(If equal, mark C.)



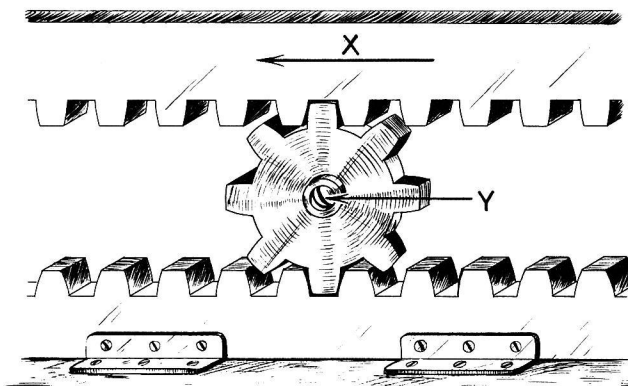
66

Which one piece of cable will give this pole the best support?



67

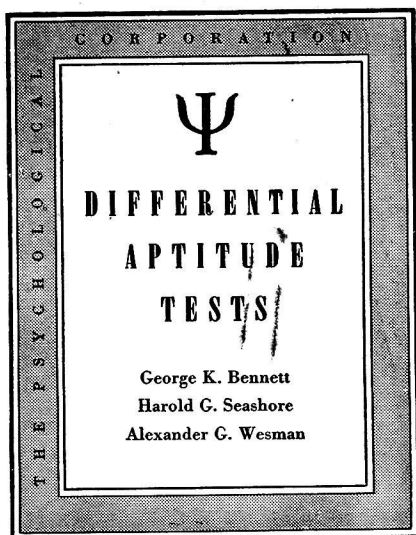
Which stool will be steadiest on uneven ground?



68

If "X" moves two feet in the direction shown, the center of the gear "Y" will move:

- (A) more than two feet;
- (B) less than two feet;
- (C) two feet.



Columbus Ohio



NUMERICAL ABILITY

FORM A

Do not open this booklet until you are told to do so.

On your SEPARATE ANSWER SHEET, print your name, address, and other requested information in the proper spaces.

In the space after Form, print an A.

Then wait for further instructions.

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booklet

Mark your answers
on the separate
Answer Sheet

DIRECTIONS

This test consists of forty numerical problems. Next to each problem there are five answers. You are to pick out the correct answer and fill in the space under its letter on the separate Answer Sheet.

EXAMPLE X

Add 13 A 14
 12 B 25
 — C 16
 D 59
 E none of these

In Example X, 25 is the correct answer, so the space under the letter for 25—B—has been filled in.

EXAMPLE Y

Subtract 30 A 15
 20 B 26
 — C 16
 D 8
 E none of these

In Example Y, the correct answer has not been given, so the space under the letter for "none of these"—E—has been blackened.

SAMPLE OF ANSWER SHEET

A	B	C	D	E
X				
A	B	C	D	E
Y				

Each answer must be reduced to its simplest terms. For example, if two choices are $1\frac{1}{2}$ and $1\frac{2}{4}$, only the $1\frac{1}{2}$ is correct.

DO ALL YOUR FIGURING IN THE SPACE PROVIDED ON THE ANSWER SHEET.

1. Add
393
4658
3790
67
—
A 7908
B 8608
C 8898
D 8908
E none of these

2. Subtract
5473
2987
—
A 2485
B 2486
C 2496
D 3486
E none of these

3. Multiply
484
25
—
A 10900
B 11100
C 11900
D 11700
E none of these

4. Multiply
2.04
.75
—
A 1.5300
B 153.0
C 1530
D 15300
E none of these

5. Multiply
4.50
22
—
A .99
B 98.40
C 99.00
D 9900
E none of these

6. Multiply
.025
.025
—
A .001375
B .00625
C .625
D 1.375
E none of these

7. Multiply
.016
.016
—
A 256
B 25.6
C .00256
D .000256
E none of these

8. Divide
46)69
—
A $1\frac{13}{46}$
B $1\frac{23}{46}$
C 1.5
D 15
E none of these

9. Divide
.75)2.25
—
A .0003
B .03
C .3
D 3
E none of these

10. Divide
3.6)72
—
A .02
B .2
C 2
D 20
E none of these

11. Divide
64.7)304.09
—
A .47
B 4.07
C 4.7
D 47
E none of these

12. Divide
.04)4.036
—
A 1.009
B 10.9
C 10.09
D 100.9
E none of these

13.
 $\frac{1}{4} \div \frac{1}{8} =$
A $\frac{1}{32}$
B $\frac{1}{8}$
C $\frac{1}{2}$
D 2
E none of these

14.
 $\frac{2}{7} \times \frac{3}{7} =$
A $\frac{6}{49}$
B $\frac{3}{7}$
C $\frac{2}{3}$
D $\frac{6}{7}$
E none of these

15.
 $\frac{3 \times 10}{5 \times 9} =$
A $\frac{27}{50}$
B $1\frac{1}{2}$
C $\frac{30}{45}$
D $\frac{2}{3}$
E none of these

16. Add

$$\begin{array}{r} 4 \frac{3}{4} \\ 9 \frac{1}{2} \\ 13 \frac{7}{8} \end{array}$$

ANSWER

- A $26 \frac{11}{14}$
 B $27 \frac{1}{8}$
 C $28 \frac{1}{2}$
 D $28 \frac{11}{14}$
 E none of these

17. Add

$$\begin{array}{r} 2 \text{ ft. } 3 \text{ in.} \\ 28 \text{ ft. } 11 \frac{1}{2} \text{ in.} \\ 17 \text{ ft. } 5 \text{ in.} \\ 4 \frac{1}{2} \text{ in.} \end{array}$$

- A 49 ft.
 B 48 ft. 2 in.
 C 47 ft. 24 in.
 D 48 ft.
 E none of these

18. Add

$$\begin{array}{r} 3 \text{ lbs. } 3 \text{ oz.} \\ 6 \text{ lbs. } 7 \text{ oz.} \\ 7 \text{ lbs. } 5 \text{ oz.} \\ 11 \text{ lbs. } 1 \text{ oz.} \end{array}$$

- A 28 lbs. 16 oz.
 B 28 lbs.
 C 27 lbs. 16 oz.
 D 18 lbs.
 E none of these

19. Square root

$$\sqrt{169}$$

- A 13
 B 43
 C $84 \frac{1}{2}$
 D 169
 E none of these

20. Square root

$$\sqrt{.09}$$

- A .03
 B .3
 C 3
 D 9
 E none of these

21. Square root

$$\sqrt{\frac{4}{9} \times \frac{25}{36}}$$

- A $\frac{25}{81}$
 B $\frac{25}{36}$
 C $\frac{5}{9}$
 D $2 \frac{7}{9}$
 E none of these

22.

$$? = 33\frac{1}{3}\% \text{ of } 963$$

- A 32.19
 B 231
 C 321
 D 32100
 E none of these

23.

$$? = 12\frac{1}{2}\% \text{ of } 816$$

- A .12
 B 12
 C 102
 D 104
 E none of these

24.

$$? = \frac{4}{9} \text{ of } 648$$

- A 14.58
 B 72
 C 218
 D 1458
 E none of these

25.

$$15 = 75\% \text{ of } ?$$

ANSWER

- A .20
 B 10.25
 C 20
 D 22.5
 E none of these

26.

$$25 = ? \% \text{ of } 125$$

- A $\frac{1}{5}$
 B 5
 C 20
 D 31.25
 E none of these

27.

$$2.5 = ? \% \text{ of } 2$$

- A 5
 B 8
 C 80
 D 125
 E none of these

28.

$$\frac{?}{8} = \frac{3}{24}$$

- A $\frac{1}{8}$
 B 1
 C 3
 D 4
 E none of these

29.

$$\frac{5}{9} = \frac{55}{?}$$

- A $\frac{55}{99}$
 B 11
 C 45
 D 99
 E none of these

30.

$$\frac{11}{4} = \frac{77}{?}$$

- A $\frac{77}{28}$
 B 28
 C 44
 D 308
 E none of these

31. Cube root

$$\sqrt[3]{32 \times 2}$$

- A 4
 B 8
 C $21 \frac{1}{3}$
 D 192
 E none of these

32. Cube root

$$\sqrt[3]{.000729}$$

- A .000243
 B .009
 C .027
 D .09
 E none of these

33. Cube root

$$\sqrt[3]{\frac{1}{8} \times \frac{125}{64}}$$

ANSWER

- A $\frac{5}{8}$
 B $\frac{375}{512}$
 C $2 \frac{1}{2}$
 D $15 \frac{5}{8}$
 E none of these

34.

$$\begin{array}{l} \text{List price} \\ = \$75.00 \\ \text{Discounts} \\ = 33\frac{1}{3}\% ; 2\% \\ \text{Net price} = \$? \end{array}$$

- A 25
 B 48.50
 C 49.50
 D 50
 E none of these

35. What one number can replace both question marks?

$$\frac{2}{?} = \frac{?}{50}$$

- A 1
 B 10
 C 25
 D 100
 E none of these

36. What one number can replace both question marks?

$$\frac{1}{?} = \frac{?}{36}$$

- A 6
 B 12
 C 35
 D 36
 E none of these

37. What one number can replace both question marks?

$$\frac{4}{?} = \frac{?}{100}$$

- A 1
 B 20
 C 25
 D 200
 E none of these

38. What one number can replace both question marks?

$$\frac{8}{?} = \frac{?}{12 \frac{1}{2}}$$

- A $1 \frac{1}{2}$
 B 4
 C 64
 D 100
 E none of these

39. What one number can replace both question marks?

$$\frac{6.25}{?} = \frac{?}{16}$$

- A 4
 B 10
 C 16
 D 50
 E none of these

40.

$$\frac{9+1 \times 6-3}{4+2 \times 7-6} =$$

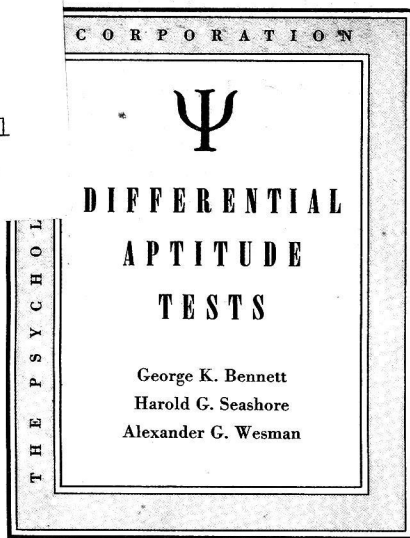
- A $\frac{57}{50}$
 B $1 \frac{7}{12}$
 C 1
 D $\frac{57}{36}$
 E none of these

M.3

P.1

Cx.B.1

CAV



Columbus - Ohio



VERBAL REASONING

FORM A

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VERBAL REASONING

Mark your answers
on the separate
Answer Sheet

DIRECTIONS

Each of the fifty sentences in this test has the first word and the last word left out. You are to pick out words which will fill the blanks so that the sentence will be true and sensible.

For the first blank, pick out a numbered word — 1, 2, 3, or 4. For the blank at the end of the sentence, pick one of the lettered words — A, B, C, or D. **Combine** the number and the letter you have chosen and mark that combination on the separate Answer Sheet after the number of the question you are working on.

EXAMPLE X.is to water as eat is to....

- | | | | |
|-------------|----------|---------|-------------|
| 1. continue | 2. drink | 3. foot | 4. girl |
| A. drive | B. enemy | C. food | D. industry |

Drink is to water as eat is to **food**. **Drink** is numbered 2, and **food** is lettered C, 2 and C are **combined** as 2C. The space under 2C has been filled in on line X on the sample Answer Sheet shown below.

Now look at the next example.

EXAMPLE Y.is to one as second is to....

- | | | | |
|-----------|----------|-----------|----------|
| 1. middle | 2. queen | 3. rain | 4. first |
| A. two | B. fire | C. object | D. hill |

First is to one as second is to **two**. 4A has been properly marked on line Y on the sample Answer Sheet as the correct answer. 4 is the number for first; A is the letter for two. They were combined to make 4A which was filled in on the sample Answer Sheet.

EXAMPLE Z.is to night as breakfast is to....

- | | | | |
|------------|------------|-----------|-----------|
| 1. flow | 2. gentle | 3. supper | 4. door |
| A. include | B. morning | C. enjoy | D. corner |

Supper, numbered 3, is to night as breakfast is to **morning**, lettered B. This number and this letter make the combination 3B which has been found and blackened on line Z on the sample Answer Sheet.

Fill in **only one** space for each question.

SAMPLE OF ANSWER SHEET

	1A	1B	1C	1D	2A	2B	2C	2D	3A	3B	3C	3D	4A	4B	4C	4D
X
Y
Z

DO NOT TURN THE PAGE UNTIL YOU ARE TOLD TO DO SO.

Do not make any marks in this booklet.

Mark your answers on the separate answer sheet.

1.is to street as rd. is to....
 1. lo. 2. ma. 3. st. 4. aw.
 - A. city B. France C. end D. road
2.is to cavalry as foot is to....
 1. horse 2. cemetery 3. votary 4. hiding
 - A. yard B. travel C. armory D. infantry
3.is to wide as thin is to....
 1. store 2. narrow 3. nothing 4. street
 - A. fat B. weight C. man D. present
4.is to masculine as woman is to....
 1. disguise 2. malicious 3. virile 4. man
 - A. intuitive B. madame C. feminine D. girl
5.is to dispute as endure is to....
 1. impute 2. repute 3. argue 4. distaff
 - A. last B. verdure C. imbue D. invert
6.is to verse as sculptor is to....
 1. poet 2. reverse 3. free 4. music
 - A. crime B. chisel C. statue D. artist
7.is to chain as bead is to....
 1. watch 2. iron 3. pull 4. link
 - A. pearl B. board C. necklace D. aim
8.is to animal as rind is to....
 1. shell 2. husk 3. skin 4. man
 - A. hard B. melon C. nut D. corn
9.is to cork as box is to....
 1. bottle 2. fish 3. brittle 4. light
 - A. fight B. lid C. hat D. crate
10.is to tusk as deer is to....
 1. ivory 2. work 3. elephant 4. trunk
 - A. doe B. hunt C. moose D. antler
11.is to contralto as tenor is to....
 1. singer 2. soprano 3. sonata 4. solo
 - A. score B. song C. orchestra D. baritone
12.is to hang as guillotine is to....
 1. picture 2. gallows 3. criminal 4. punish
 - A. revolution B. behead C. capitulate D. citizen
13.is to tree as melon is to....
 1. bush 2. elm 3. gnarled 4. apple
 - A. vine B. water C. ripe D. sweet

GO ON TO THE NEXT PAGE AND KEEP RIGHT ON WORKING.

14.is to pea as shell is to.....
 1. green 2. sweep 3. pod 4. soup
 A. rifle B. nut C. crack D. peel
15.is to steer as pork is to.....
 1. beef 2. bull 3. cow 4. barn
 A. steak B. lard C. chop D. pig
16.is to sentence as sentence is to.....
 1. jail 2. word 3. period 4. question
 A. fine B. comma C. paragraph D. phrase
17.is to Dick as Margaret is to.....
 1. Richard 2. Francis 3. William 4. Benjamin
 A. Mary B. Peggy C. Joan D. Frances
18.is to childhood as adolescence is to.....
 1. infantry 2. infancy 3. weaning 4. health
 A. adultery B. maturity C. sinecure D. intelligence
19.is to potato as beater is to.....
 1. masher 2. mashed 3. skin 4. spud
 A. winner B. baton C. steak D. egg
20.is to dog as Guernsey is to.....
 1. terrier 2. tail 3. bark 4. cat
 A. cow B. Jersey C. noble D. furniture
21.is to top as base is to.....
 1. ibex 2. spin 3. side 4. apex
 A. vile B. ball C. bottom D. home
22.is to eagle as Pekinese is to.....
 1. flag 2. sparrow 3. dollar 4. vulture
 A. Chinese B. collie C. yen D. crow
23.is to river as coast is to.....
 1. flood 2. boat 3. bank 4. tide
 A. beach B. spa C. sea D. sled
24.is to foot as elbow is to.....
 1. man 2. thigh 3. knee 4. toe
 A. hand B. thumb C. shoulder D. finger
25.is to day as calendar is to.....
 1. noon 2. clock 3. sun 4. night
 A. year B. week end C. March D. century

TURN THE PAGE AND KEEP RIGHT ON WORKING.

26.is to constitution as prologue is to.....
- | | | | |
|-----------------|---------|-------------|--------------|
| 1. independence | 2. law | 3. preamble | 4. amendment |
| A. eulogy | B. writ | C. play | D. epilogue |
27.is to proceed as stop is to.....
- | | | | |
|------------|-----------|-----------|--------------|
| 1. profit | 2. halt | 3. recede | 4. intercede |
| A. prevent | B. bottle | C. gone | D. go |
28.is to horse as bray is to.....
- | | | | |
|----------|---------|----------|-----------|
| 1. drive | 2. hoof | 3. neigh | 4. saddle |
| A. relay | B. pony | C. wagon | D. donkey |
29.is to sea as rebellion is to.....
- | | | | |
|--------------|---------|-----------|------------|
| 1. mutiny | 2. navy | 3. sailor | 4. river |
| A. revolting | B. war | C. land | D. soldier |
30.is to distance as pound is to.....
- | | | | |
|----------|----------|-----------|-----------|
| 1. far | 2. rod | 3. Europe | 4. travel |
| A. heavy | B. ounce | C. weight | D. noise |
31.is to door as pane is to.....
- | | | | |
|----------|-----------|---------|----------|
| 1. home | 2. lock | 3. wood | 4. panel |
| A. glass | B. window | C. ache | D. view |
32.is to never as all is to.....
- | | | | |
|-----------|------------|-----------|----------|
| 1. always | 2. usually | 3. seldom | 4. often |
| A. none | B. whole | C. every | D. total |
33.is to future as regret is to.....
- | | | | |
|----------|----------------|-------------|---------|
| 1. ahead | 2. opportunity | 3. forecast | 4. hope |
| A. past | B. atone | C. absent | D. sins |
34.is to rain as levee is to.....
- | | | | |
|--------------|----------|----------|-------------|
| 1. cloud | 2. fog | 3. water | 4. umbrella |
| A. departure | B. flood | C. rise | D. wash |
35.is to fish as gun is to.....
- | | | | |
|---------|------------|---------|-----------|
| 1. cod | 2. bait | 3. rod | 4. fry |
| A. hunt | B. trigger | C. shot | D. bullet |
36.is to pacifist as religion is to.....
- | | | | |
|-----------|-------------|------------|---------------|
| 1. war | 2. atlantis | 3. object | 4. conscience |
| A. devout | B. sacred | C. atheist | D. minister |
37.is to deft as awkward is to.....
- | | | | |
|-------------|------------|--------------|---------|
| 1. clumsy | 2. hearing | 3. blindness | 4. newt |
| A. skillful | B. stupid | C. ugly | D. left |
38.is to nut as hook is to.....
- | | | | |
|----------|---------|------------|----------|
| 1. fruit | 2. sane | 3. bolt | 4. hazel |
| A. bend | B. golf | C. eyehole | D. pitch |

GO ON TO THE NEXT PAGE AND KEEP WORKING.

39.is to land as knot is to.....
 1. desert 2. mile 3. acre 4. farm
 A. rope B. meter C. sea D. mountain
40.is to bird as shed is to.....
 1. call 2. fly 3. migrate 4. moult
 A. barn B. dog C. hay D. farm
41.is to physician as secretary is to.....
 1. hospital 2. doctor 3. nurse 4. medicine
 A. office B. stenographer C. clerk D. executive
42.is to England as lira is to.....
 1. London 2. pound 3. king 4. colony
 A. Italy B. Mexico C. mandolin D. money
43.is to city as national is to.....
 1. mayor 2. Chicago 3. limits 4. municipal
 A. country B. Federal C. government D. international
44.is to prison as Louvre is to.....
 1. warden 2. Bastille 3. crime 4. bars
 A. France B. museum C. paramour D. artist
45.is to Canada as Havana is to.....
 1. Detroit 2. Nome 3. Toronto 4. Alberta
 A. Puerto Rico B. Cuba C. Mexico D. Florida
46.is to opera as lyric is to.....
 1. baritone 2. drama 3. Wagner 4. composer
 A. song B. music C. poem D. lilting
47.is to bleach as flushed is to.....
 1. color 2. gay 3. sheep 4. combine
 A. blushed B. drained C. wan D. truffle
48.is to static as dynamic is to.....
 1. radio 2. politic 3. inert 4. air
 A. speaker B. motor C. active D. regal
49.is to all as part is to.....
 1. each 2. right 3. none 4. full
 A. whole B. separate C. role D. many
50.is to diamond as circle is to.....
 1. square 2. shape 3. cube 4. gold
 A. triangle B. oval C. round D. smooth

