

Math Power

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☎: 301-251-7014

🌐 site: <http://www.MathEnglish.com>

By Dr. Li

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Name: (First)_____ (Last)_____

School: _____ Grade: _____

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Quantitative Comparison

The following problems require quantitative comparison. Only four outcomes are possible. Select
 A if quantity (A) > quantity (B)
 B if quantity (B) > quantity (A)
 C if both are equal
 D none of the above

1. (A) the number of quarters in \$8
 (B) the number of fourths in 8

2. (A) $0 + 400$
 (B) $400 + 0$

3. (A) $\frac{1}{2}\%$
 (B) 0.50%

4. (A) $\frac{89}{90}$
 (B) $\frac{98}{99}$

5. (A) 1.23×4.56
 (B) 12.3×0.456

6. (A) the total measure of the 4 interior angles of a square

(B) the total measure of the 4 interior angles of a rhombus

7. (A) 100^0
 (B) 0.01^0

8. (A) 0.25
 (B) $\frac{1}{25}$

9. (A) $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5}$
 (B) $\frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7}$

10. (A) $\frac{1}{90} - \frac{1}{91}$
 (B) $\frac{1}{100} - \frac{1}{101}$

11. (A) $(3\%)^2$
 (B) 9%

12. (A) $66\frac{2}{3}\%$
 (B) $\frac{2}{3}$

13. (A) the volume of a cube with each side 3
(B) the volume of a rectangular box with 2, 3, and 4 as the width, length and height

20. (A) the area of a square
(B) the area of a triangle

Picture Analogies

14. (A) The number of days in a year
(B) The number degrees by revolving a circle

15. (A) 0.4999
(B) $\frac{1}{2}$

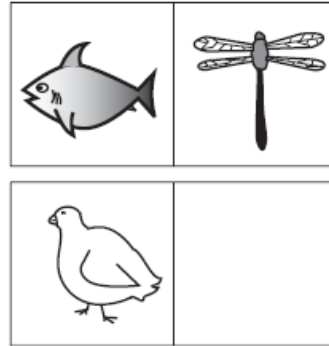
16. (A) $3\frac{1}{3}$
(B) $\frac{11}{3}$

17. (A) the number of hours in half day
(B) the number of a dozen

18. (A) the number of diagonals in a pentagon
(B) the number of sides in a pentagon

19. (A) The number in three dozen
(B) The number of inches in 3 yard

21. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



a.



b.

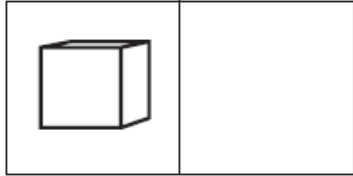
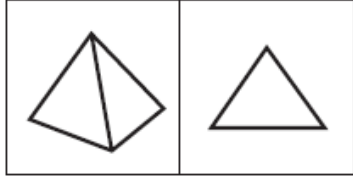


c.



d.

22. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



a.



b.

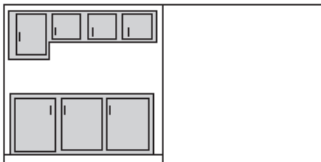
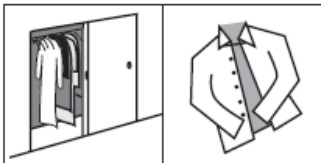


c.



d.

23. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



a.



b.

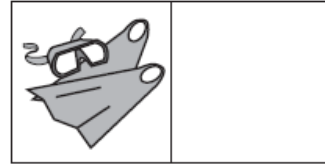
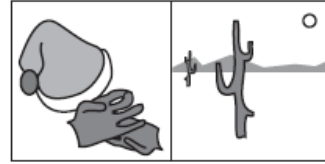


c.



d.

24. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



a.



b.

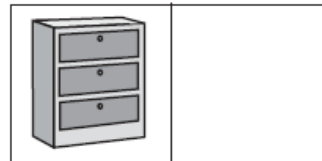
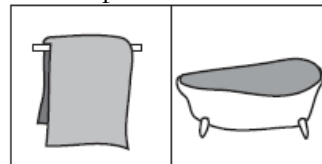


c.



d.

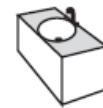
25. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



a.



b.

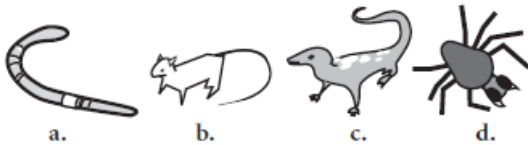
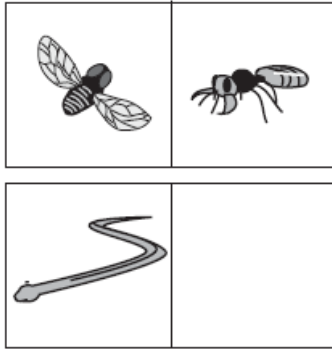


c.

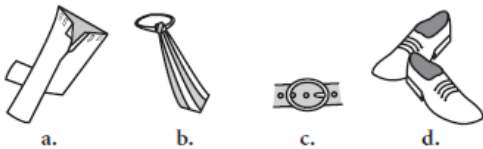
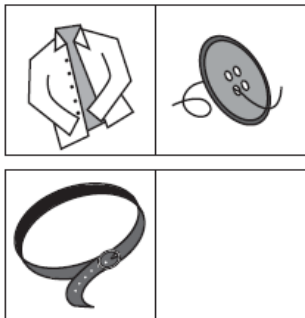


d.

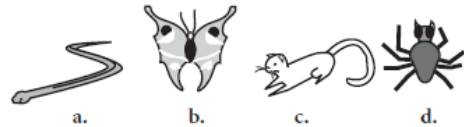
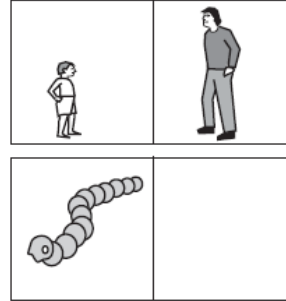
26. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



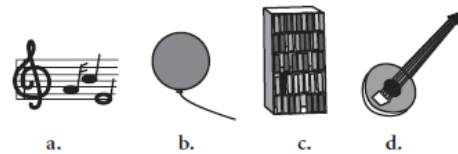
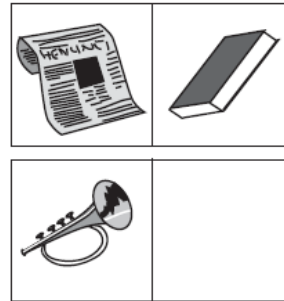
27. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



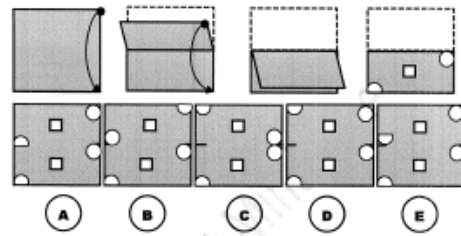
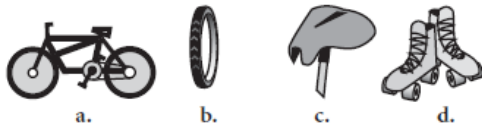
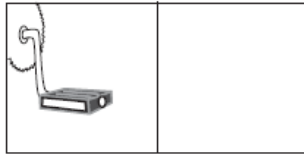
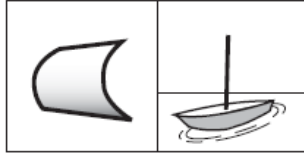
28. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



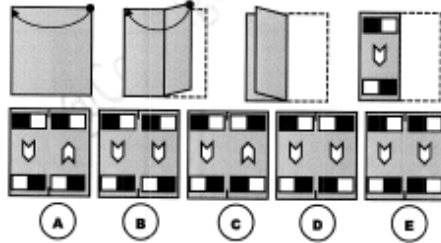
29. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



30. Find a picture for the empty box so that the bottom row is related in a similar way to the top row:



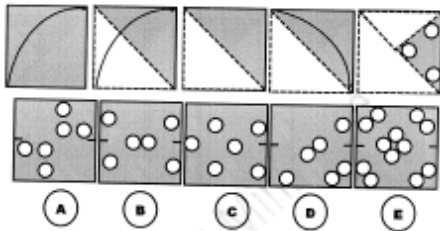
33.



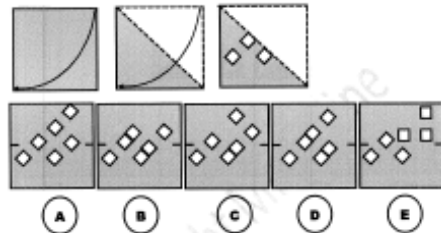
34.

Paper Folding

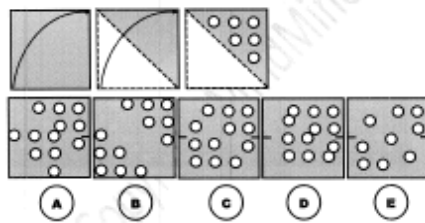
In the Paper Folding subtest, each question shows a square piece of paper being folded and then the folded paper is hold-punched. Select the answer from the bottom row that shows how the folded paper with holes will look when it is unfolded.



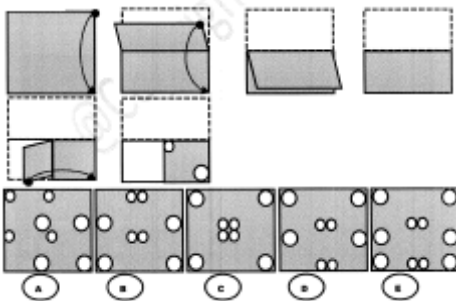
31.



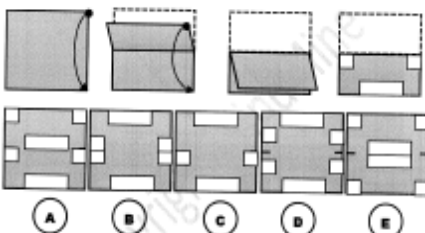
35.



36.

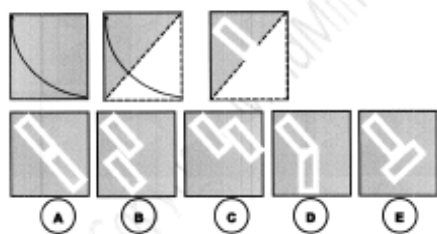


32.

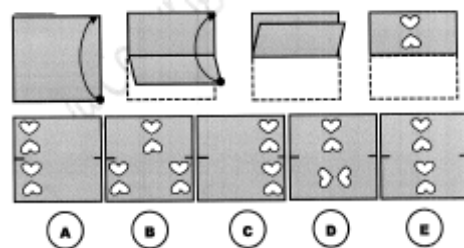


37.

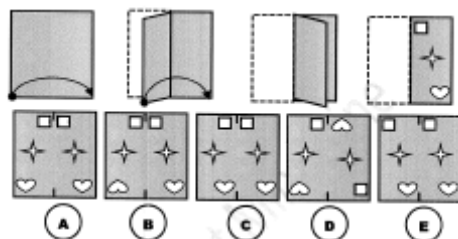
38.



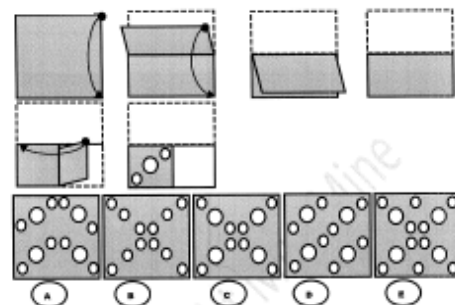
42.



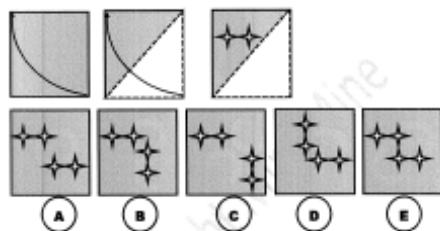
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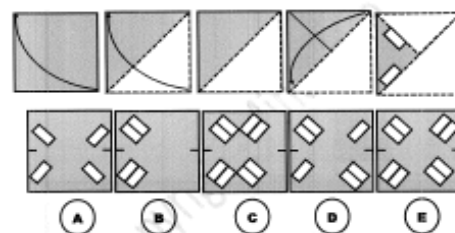
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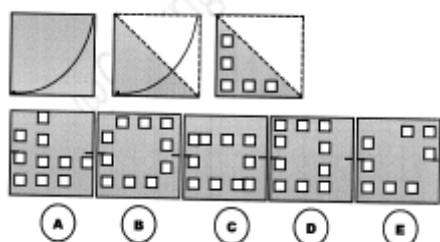
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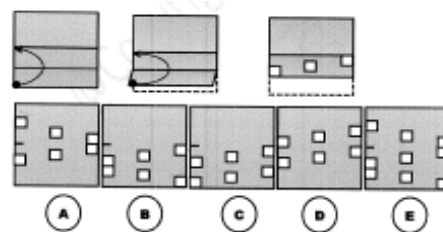
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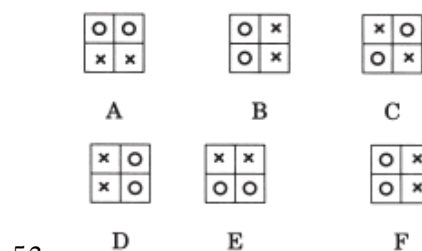
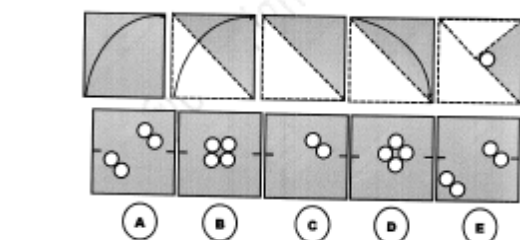
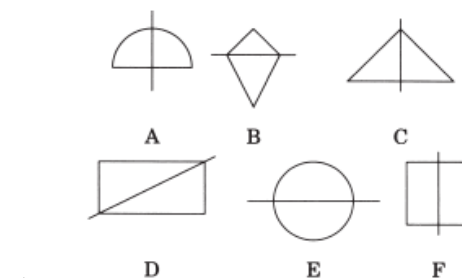
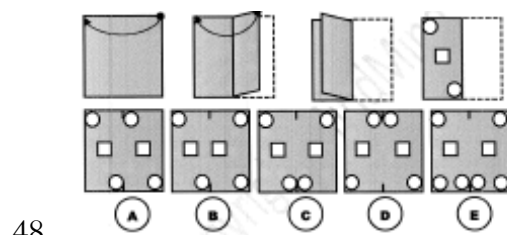
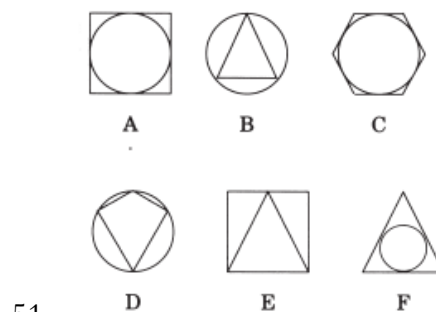
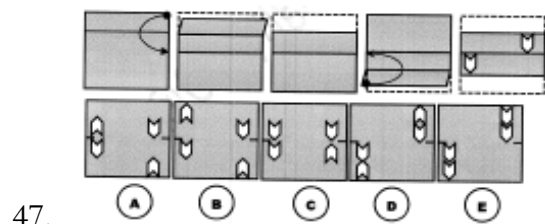
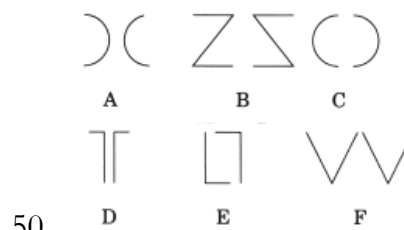
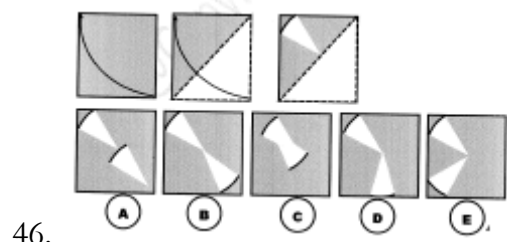


41.



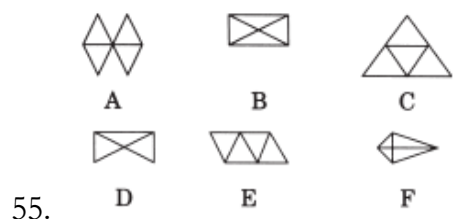
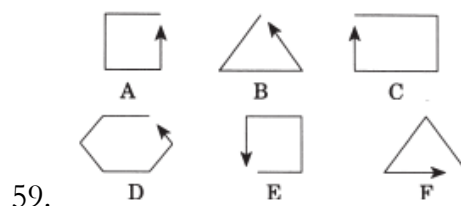
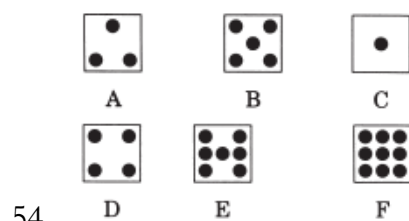
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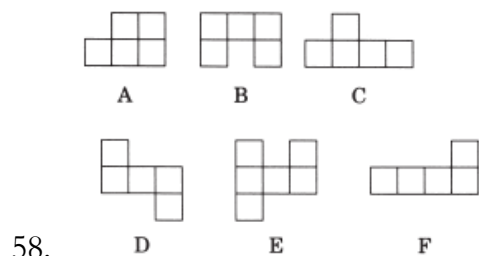
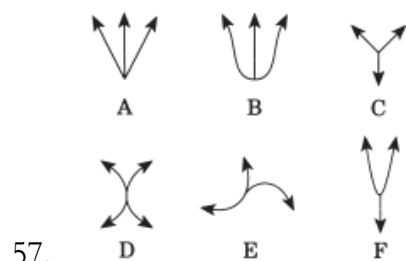
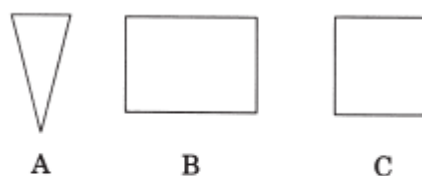
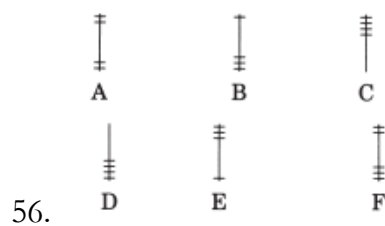
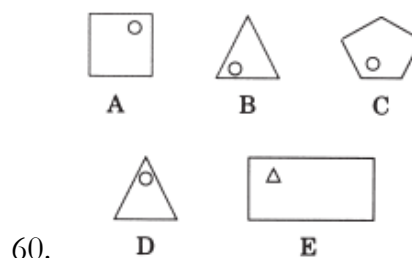


Non Verbal Reasoning

Which is the odd one out in this group of shapes? Look at the example below:



Which is the odd one out in this group of shapes? Look at the example below:



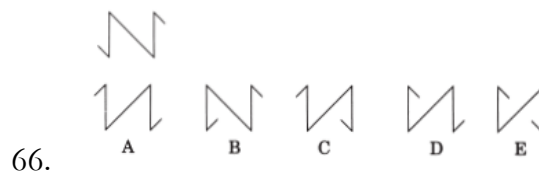
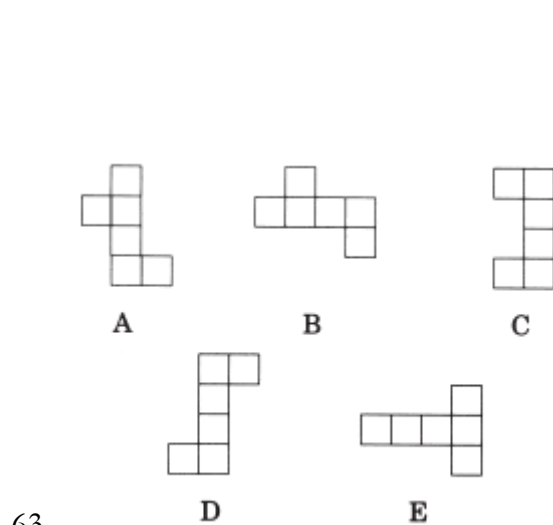
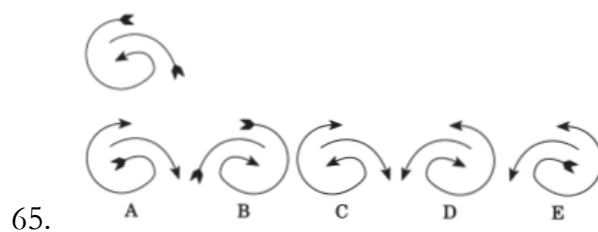
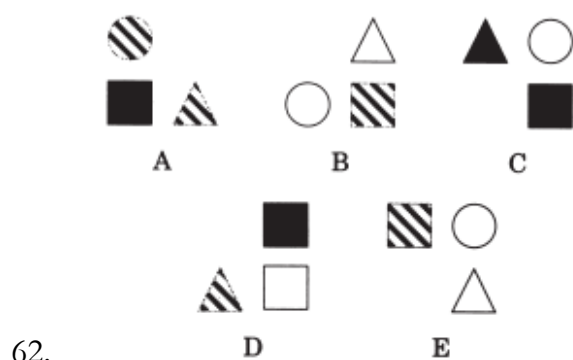
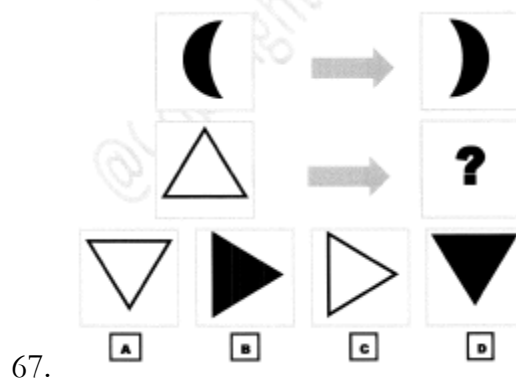
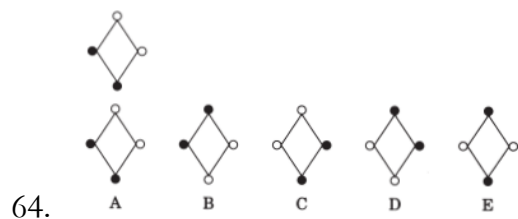
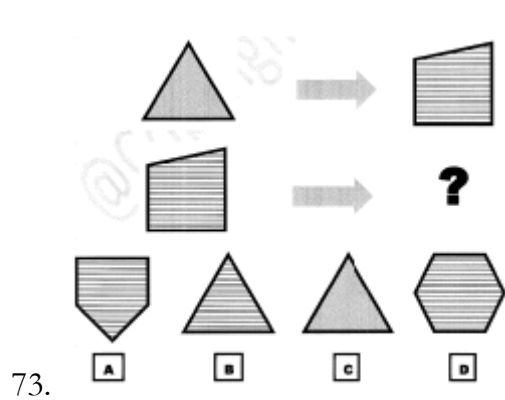
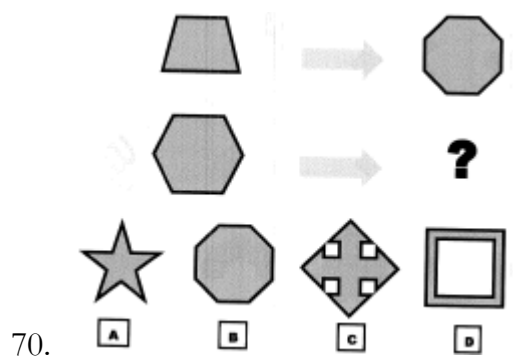
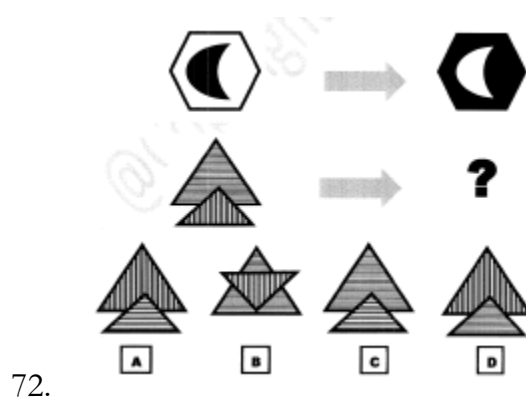
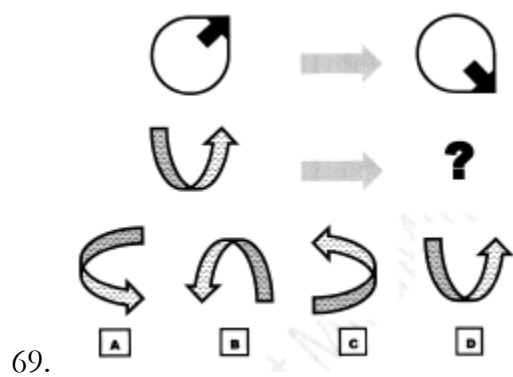
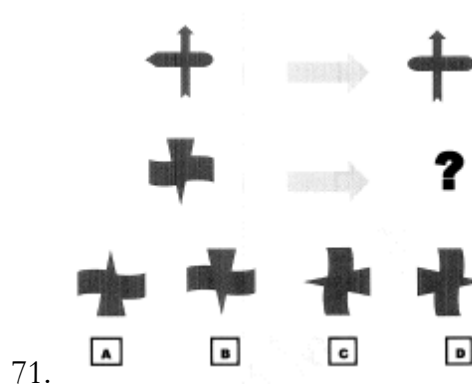
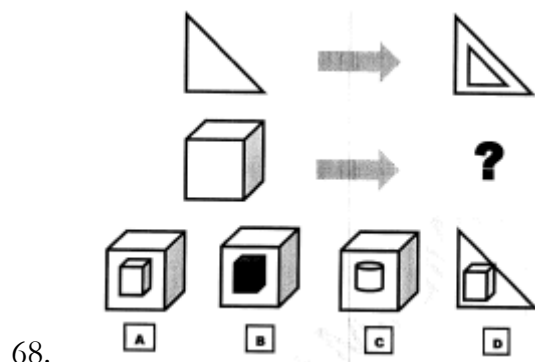


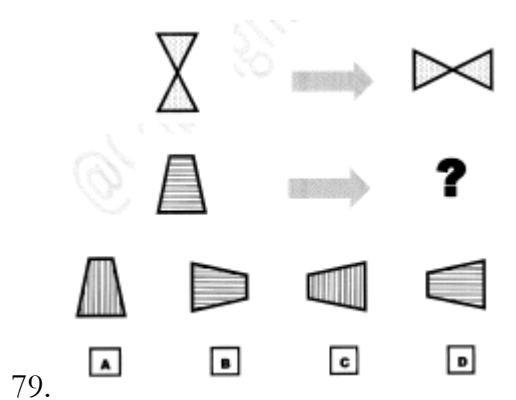
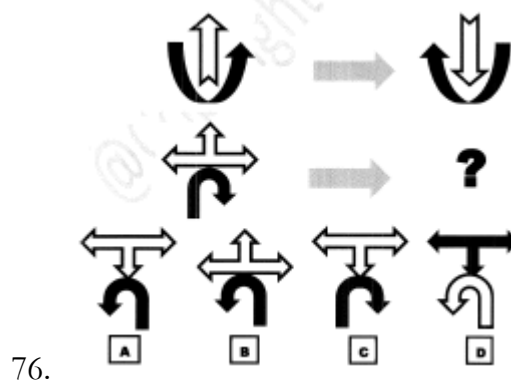
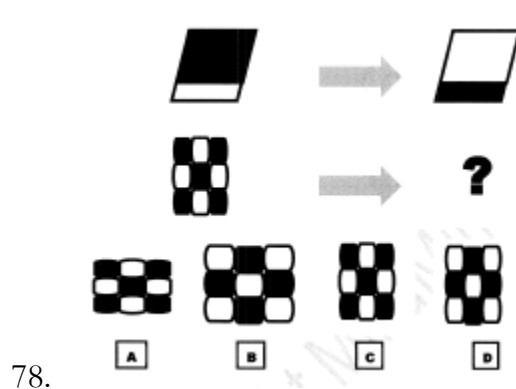
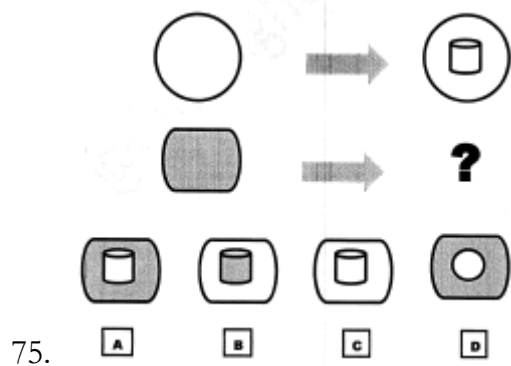
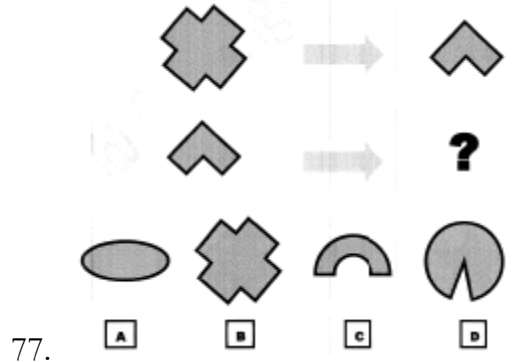
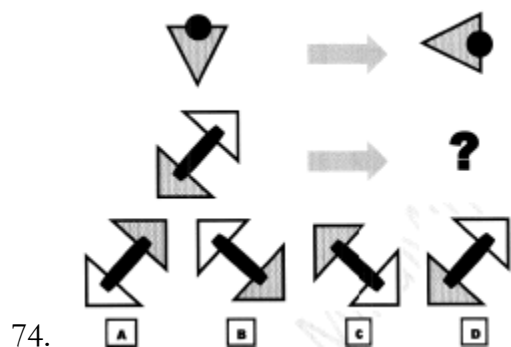
Figure Analogies

In the Figure Analogies subtest, students are given a set of figures. They will need to find the missing figure from the given choices.

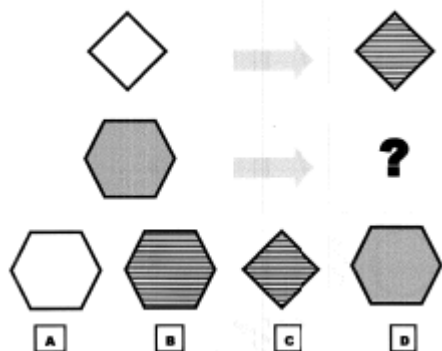
Which shape is the same but facing the opposite direction?



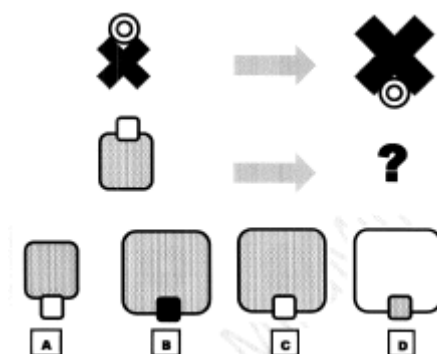




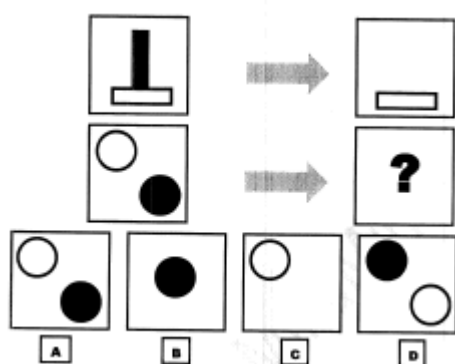
80.



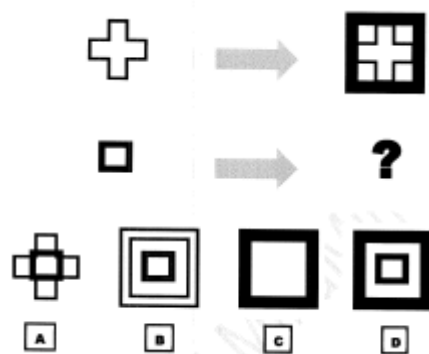
83.



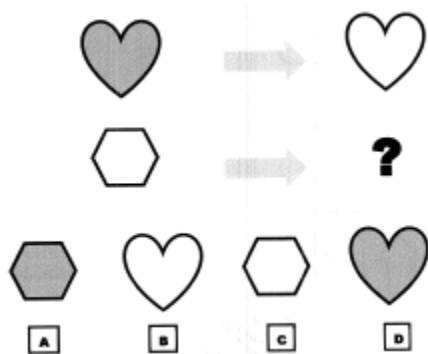
81.



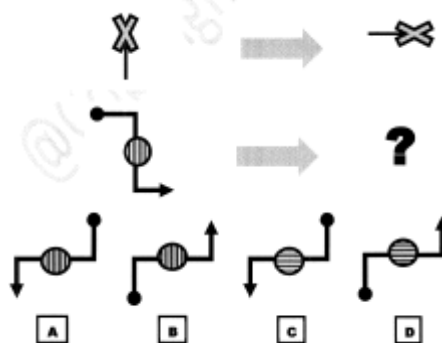
84.



82.



85.



Answer Key

1. C
2. C
3. C
4. B
5. C
6. C
7. C
Both are 1.
8. A
9. A
10. A
11. B
12. C
 $66\frac{2}{3}\% = \frac{2}{3}$
13. A
14. A
15. B
16. B
17. C
18. C
19. B
A) $3 \times 12 = 36$
B) $3 \text{ yd} = 9 \text{ ft} = \boxed{108} \text{ inches}$
20. D
21. D
A fish is to a dragonfly as a chicken is to corn. Fish eat insects; chickens eat corn.
22. A
Pyramid is to triangle as cube is to square. This relationship shows dimension. The triangle shows one dimension of the pyramid; the square is one dimension of the cube.
23. B
Closet is to shirt as kitchen cabinets are to cans of food. The shirt is stored in the closet; the food is stored in the cabinets.
24. B
Hat and mittens are to desert as snorkel and flippers are to snow. This relationship shows an opposition. The hat and mittens are NOT worn in the desert; the snorkel and flippers are NOT worn in the snow.
25. B
Towel is to bathtub as chest of drawers is to bed. The towel and bathtub are both found in a bathroom; the chest and the bed are both found in a bedroom.
26. A
Sail is to sailboat as pedal is to bicycle. The sail makes the sailboat move; the pedal makes the bicycle move.
27. C
A shirt is to a button as a belt is to a belt buckle. A button is used to close a shirt; a belt buckle is used to close a belt.
28. B
A toddler is to an adult as a caterpillar is to a butterfly. This relationship shows the young and the adult. The caterpillar is an early stage of the adult butterfly.
29. D
Newspaper is to book as trumpet is to banjo. The newspaper and book are to read; the trumpet and banjo are musical instruments to play.
30. A
31. E
32. C
33. C
34. D
35. D
36. C
37. B
38. A
39. A
40. B
41. B
42. E
43. C
44. E
45. B
46. B
47. D
48. C
49. D
50. E
51. E
52. B
53. C
54. D
55. D
56. F
57. D

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|-------|-------|
| 58. E | 72. D |
| 59. C | 73. A |
| 60. E | 74. C |
| 61. A | 75. A |
| 62. D | 76. A |
| 63. C | 77. A |
| 64. C | 78. D |
| 65. B | 79. C |
| 66. A | 80. B |
| 67. A | 81. C |
| 68. A | 82. C |
| 69. A | 83. C |
| 70. A | 84. D |
| 71. B | 85. C |