www.mathleague.world

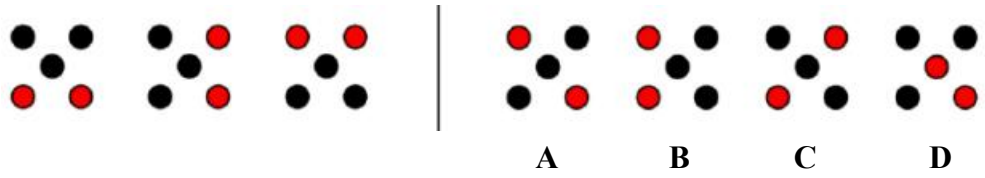
2024-2025 Math League Preliminary Round

(Grade 2)

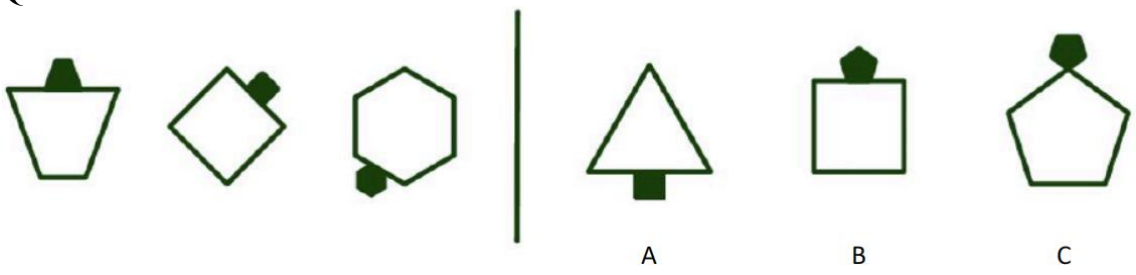
(Unofficial version, for reference only)

The following description applies to the seven following questions.

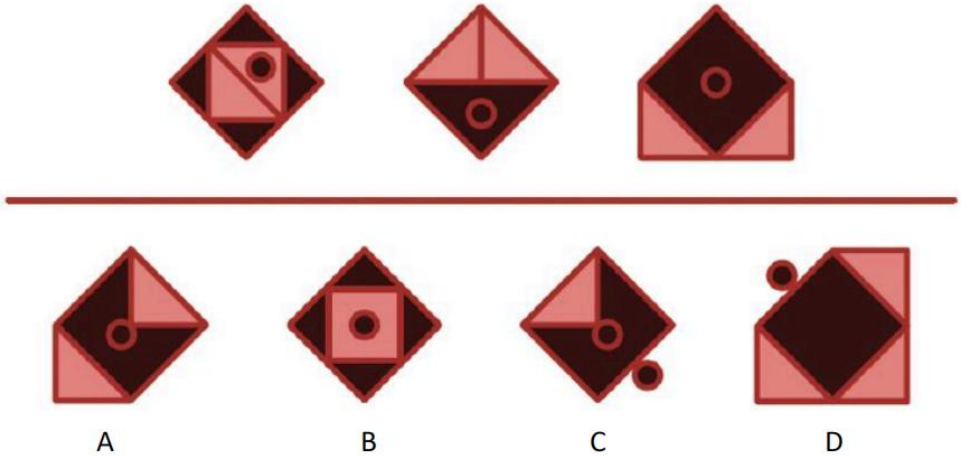
Look at the first three figures. They go together in some way. Choose one more figure in the rest of the row that goes with the first three figures in the same way. For example, the first three figures are the same figure rotated. So, the correct answer is (B).



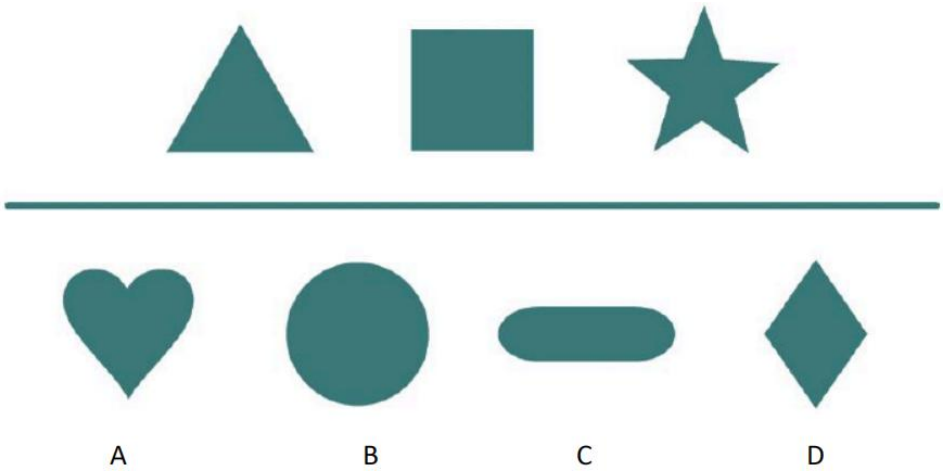
Question 1:



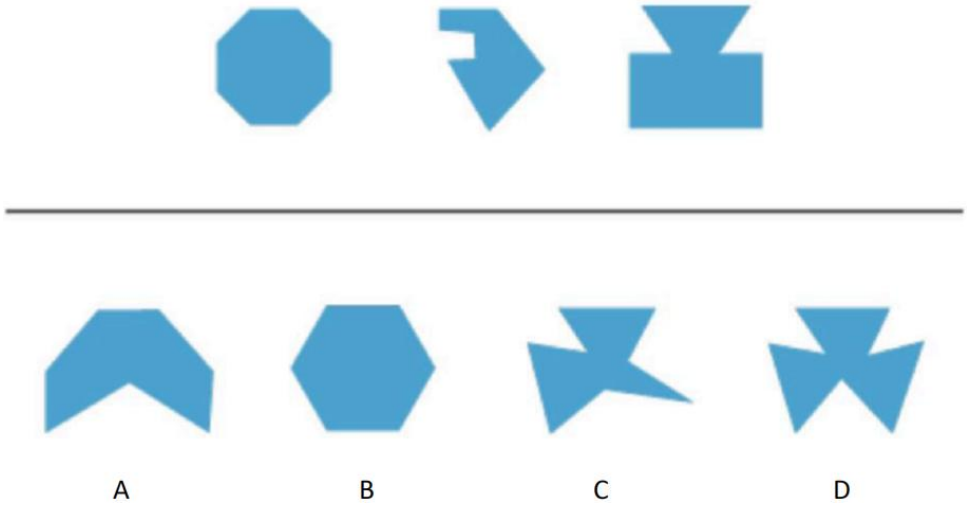
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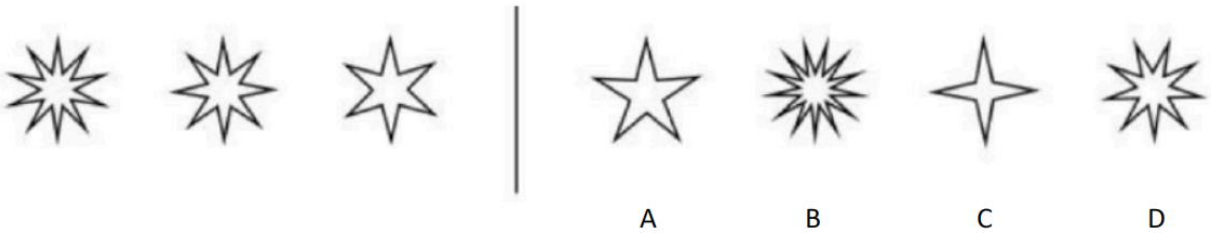
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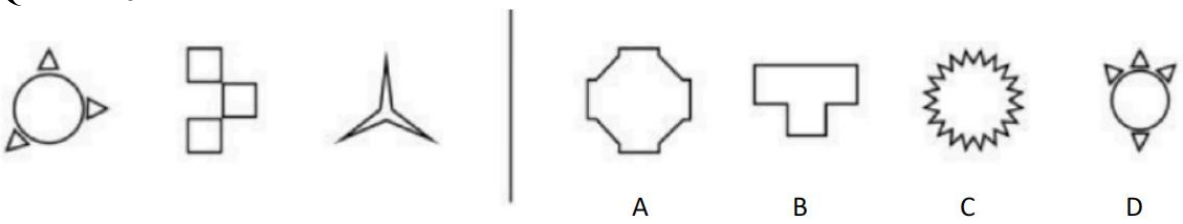
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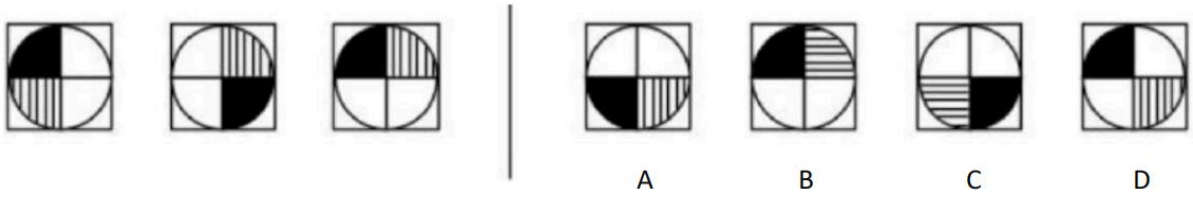
Question 5:



Question 6:



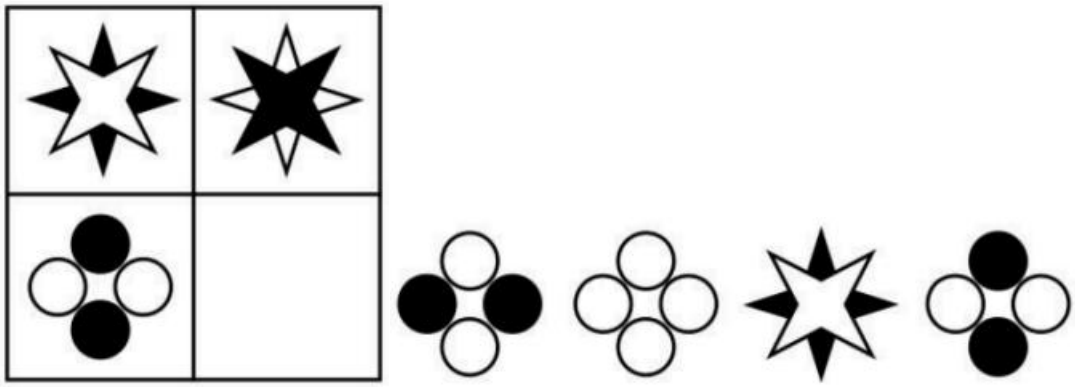
Question 7:



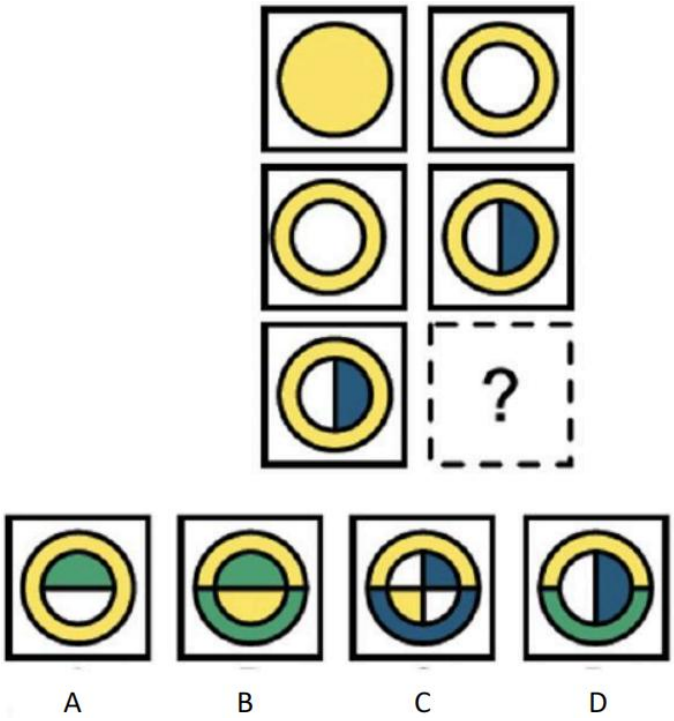
The following description applies to the nine following questions.

You are shown a pair of shapes on the top row that are related in some way. You must determine how they are related. Then, look at the shape in the bottom left box and find which answer goes with it to create the same relationship between the shapes in the top two boxes.

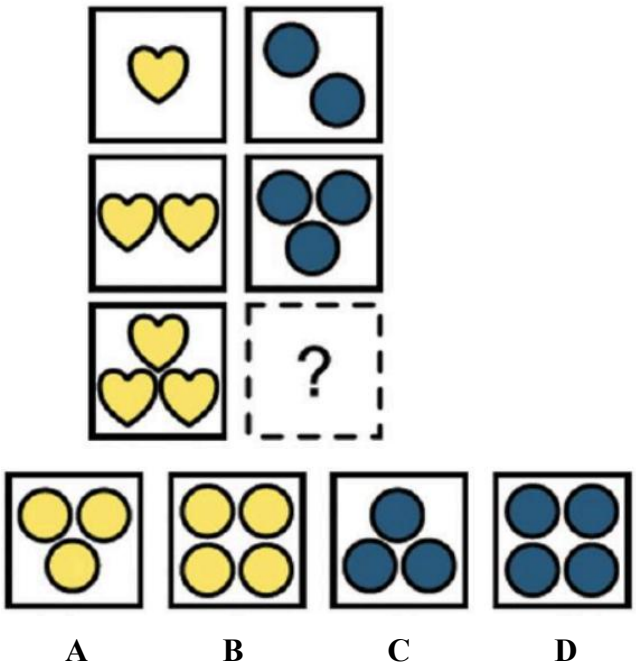
For example, in the figure below, the two shapes on the top row are opposite, meaning black becomes white and white becomes black. So the answer is (A) as the two shapes on the bottom row are also opposite.



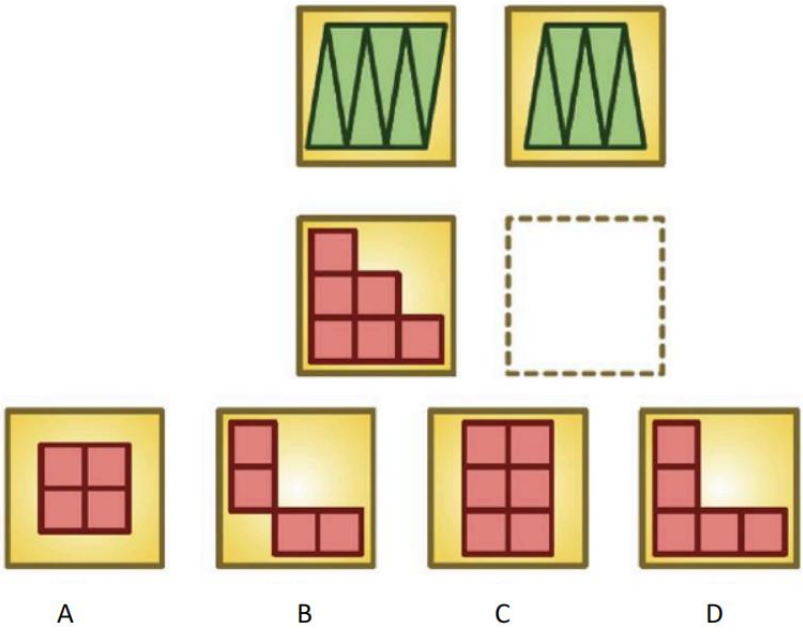
Question 8:



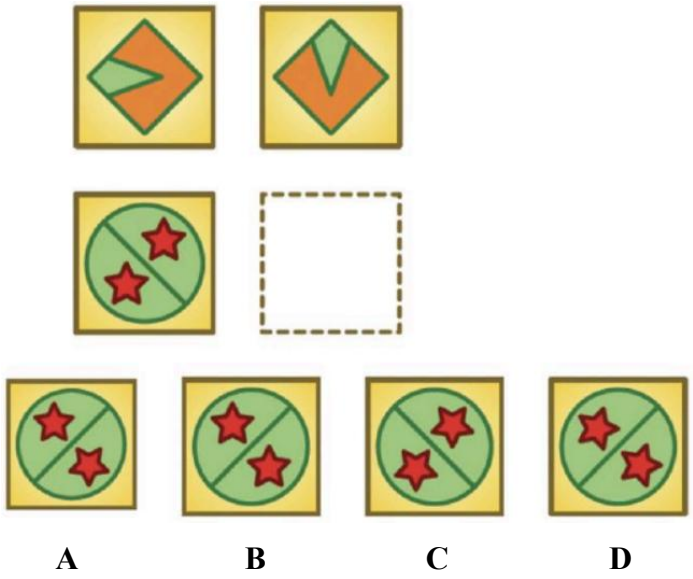
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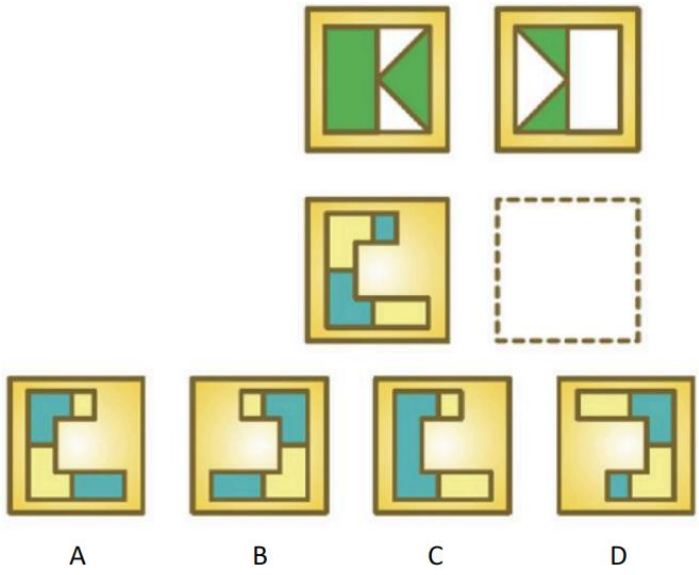
Question 10:



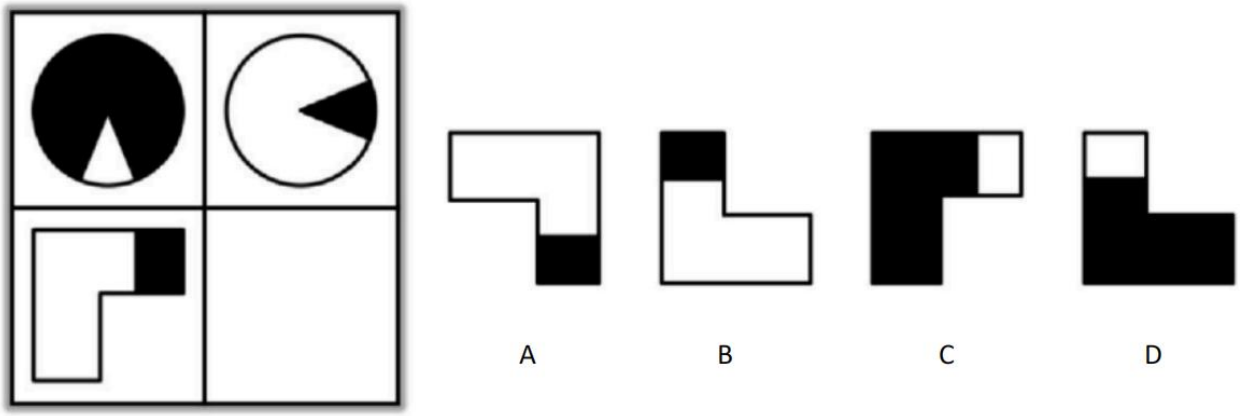
Question 11:



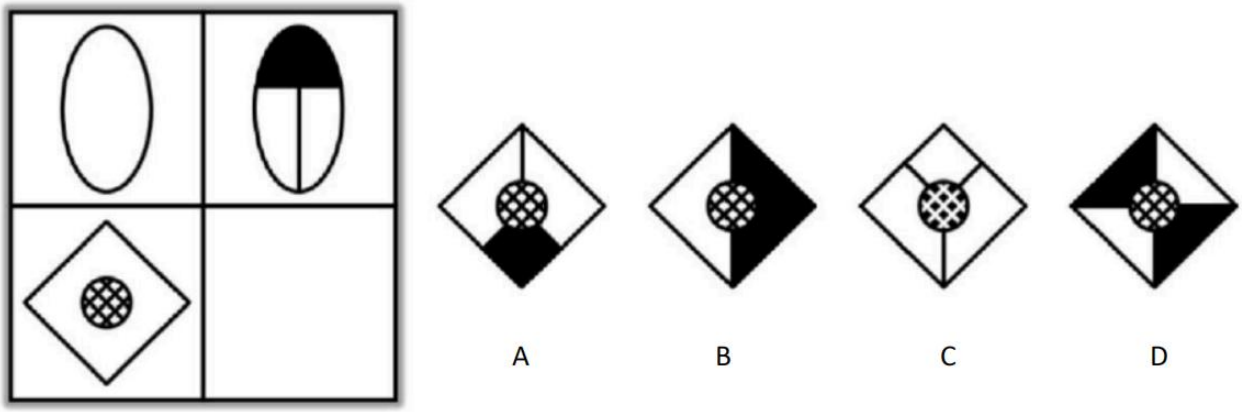
Question 12:



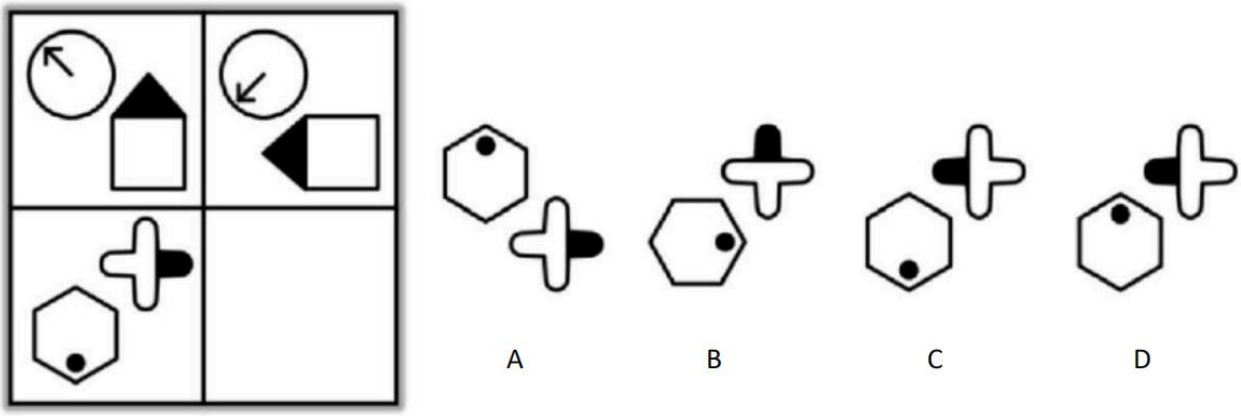
Question 13:



Question 14:



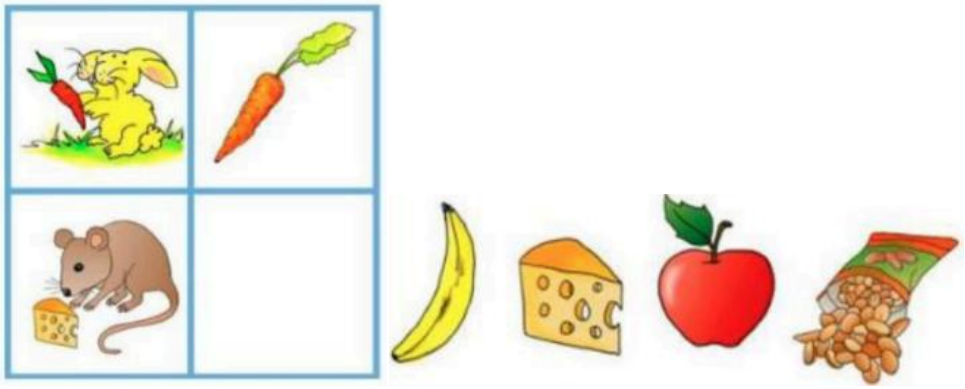
Question 15:



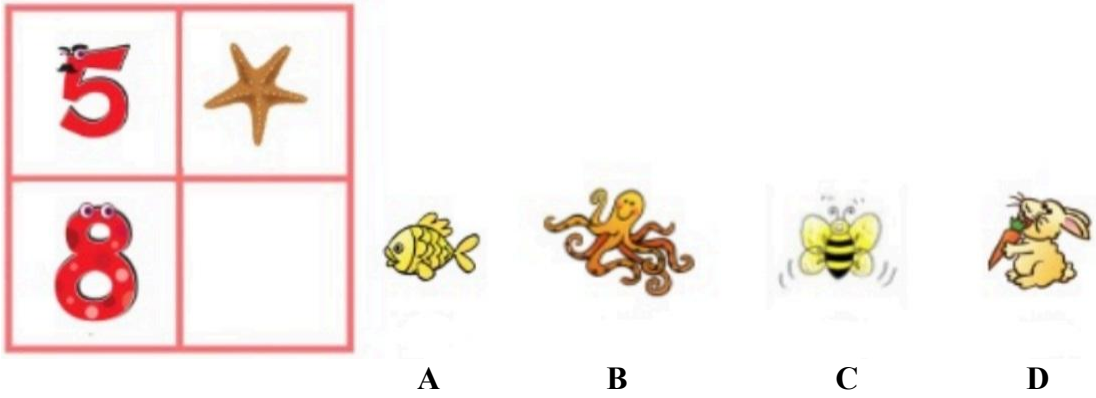
The following description applies to the six following questions.

Look at the two pictures on the top row. They go together in some way. Now, look at the picture in the bottom box, and then look at the answer choices. Do you see a picture among the answer choices that go with the picture on the bottom the same way the pictures on top go together?

For example, in the figure below, the answer is (B), as the food on the right is what the animal on the left eats.



Question 16:



Question 17:





A



B



C



D

Question 18:





A



B

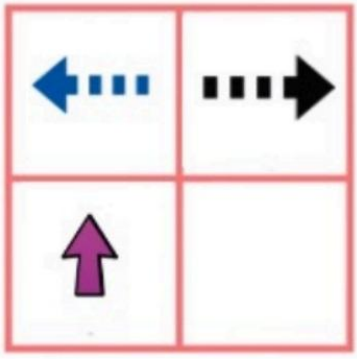


C



D

Question 19:





A



B

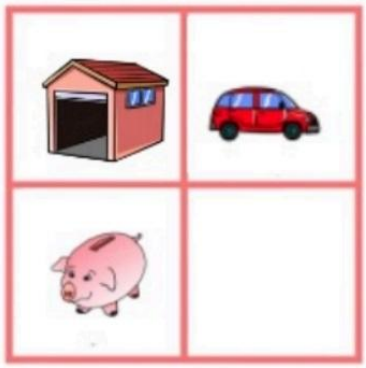


C



D

Question 20:





A



B

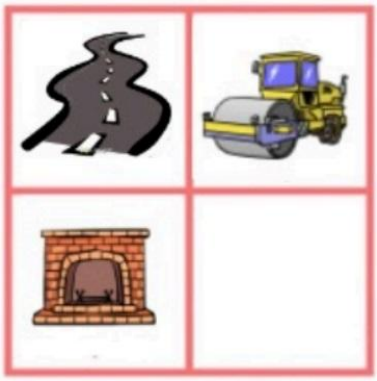


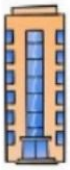
C



D

Question 21:





A



B



C

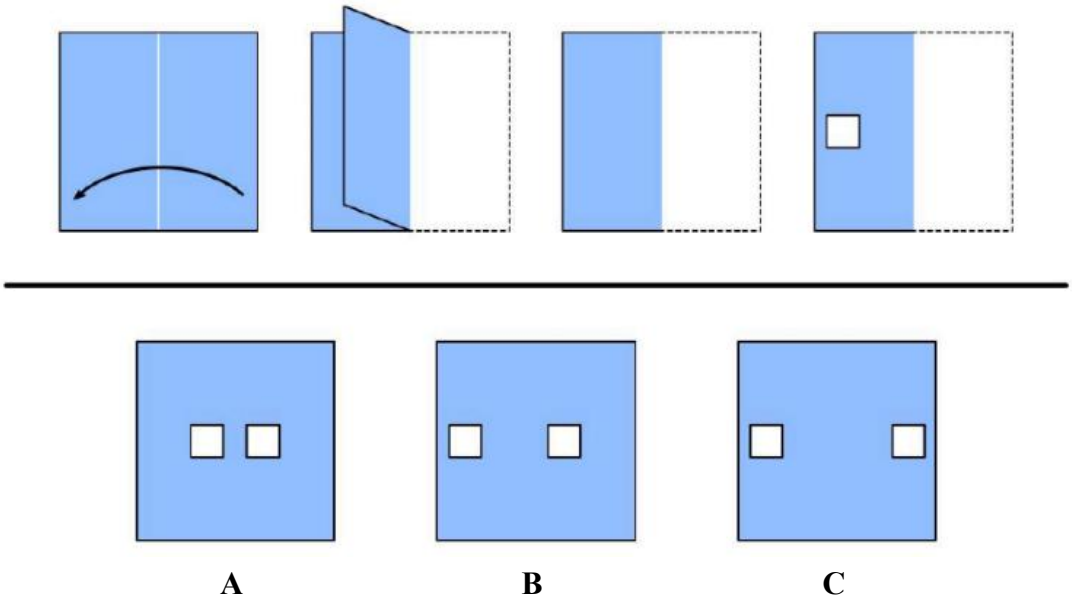


D

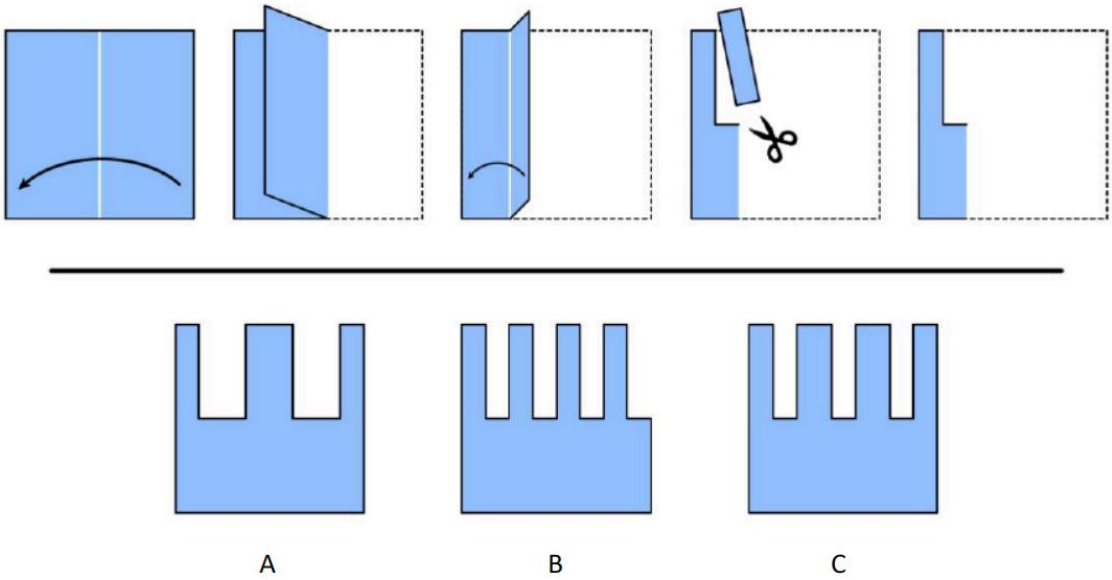
The following description applies to the six following questions.

Take a look at the pictures across the top row. They show a piece of square paper being folded. Then, one or more holes are punched in the folded piece of paper. Can you point to the answer that shows what the square piece of paper will look like when it is unfolded?

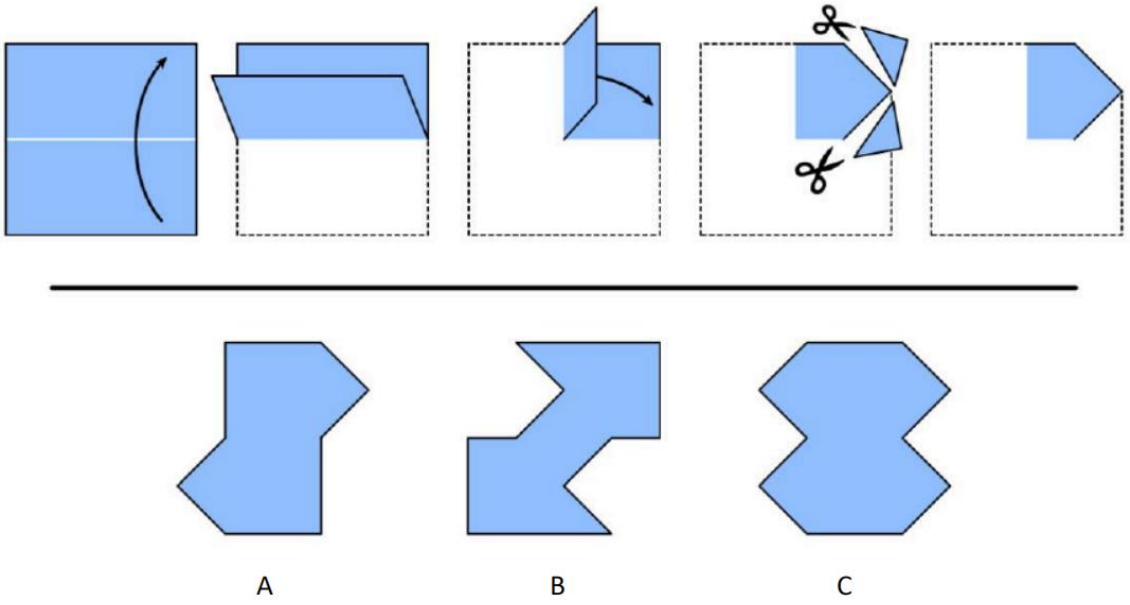
For example, in the figure below, the answer is (C).



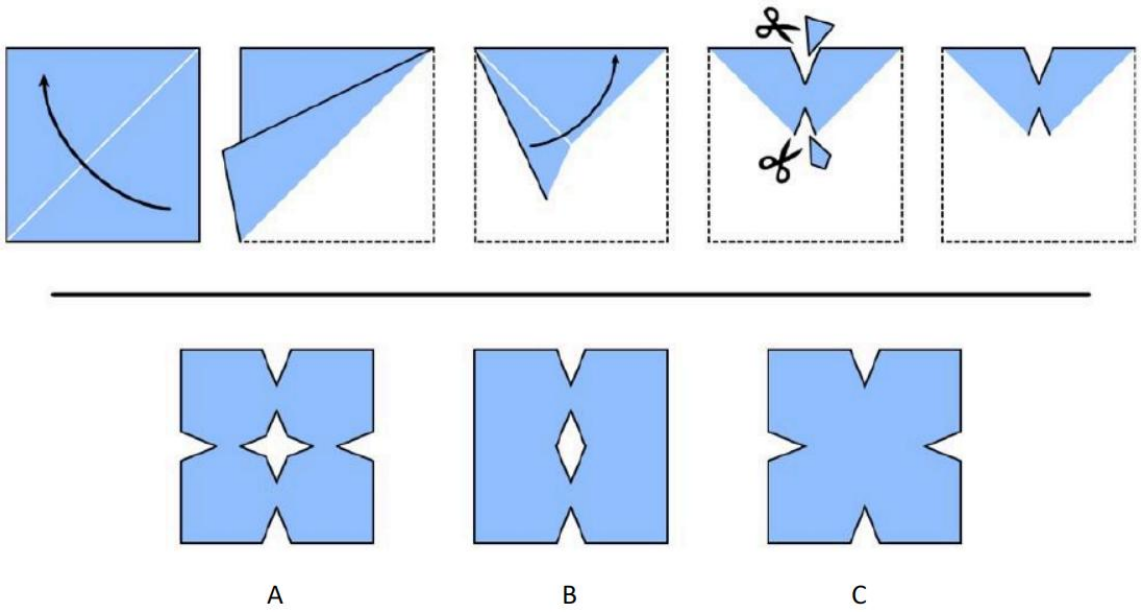
Question 22:



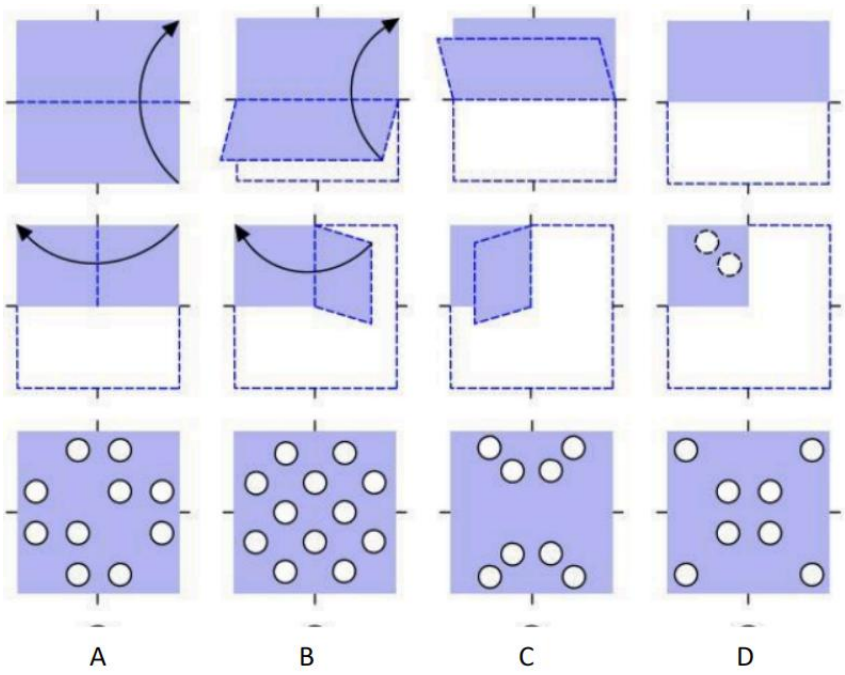
Question 23:



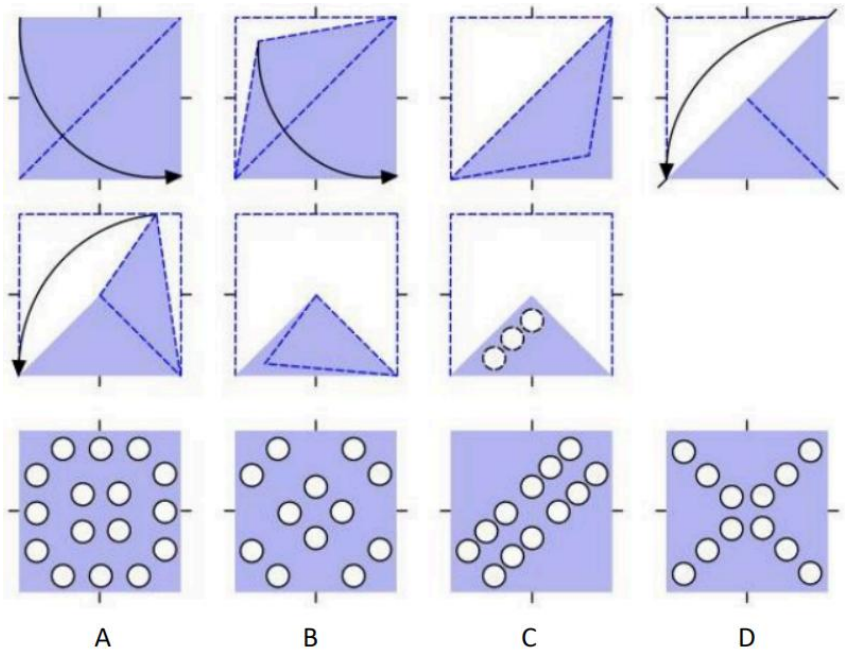
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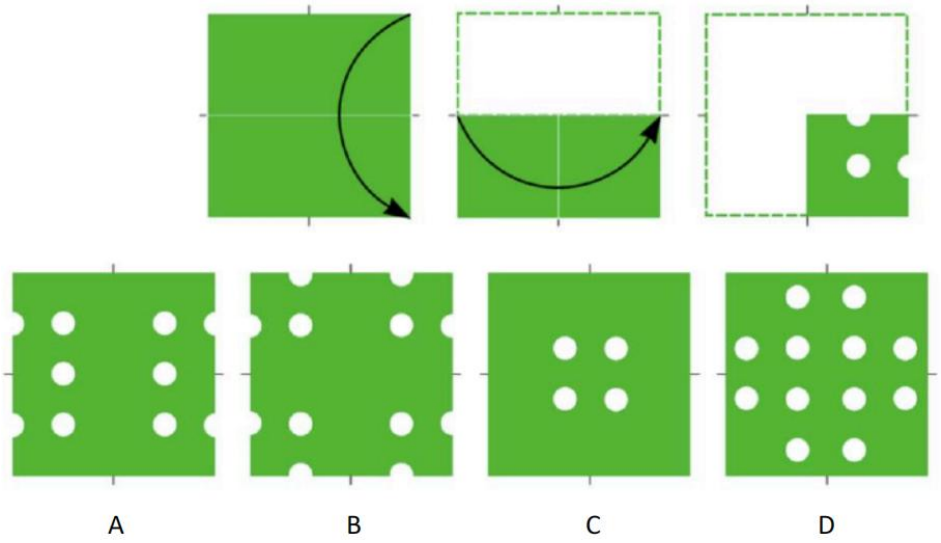
Question 25:



Question 26:



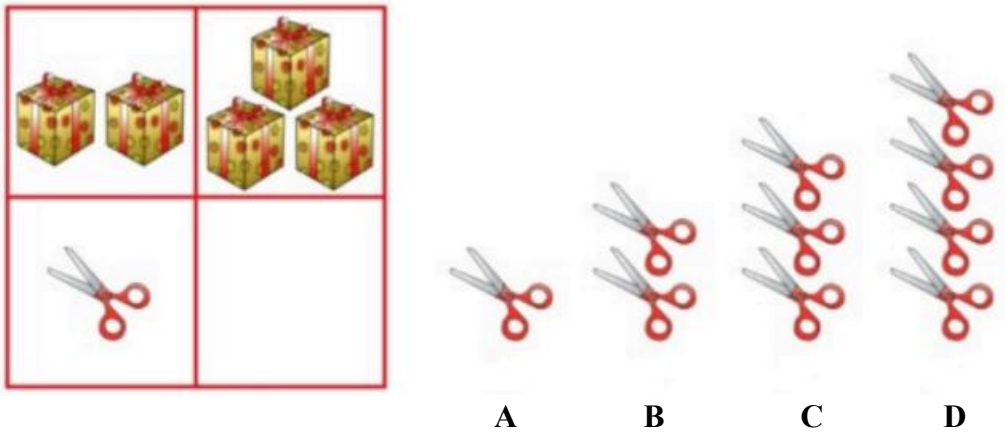
Question 27:



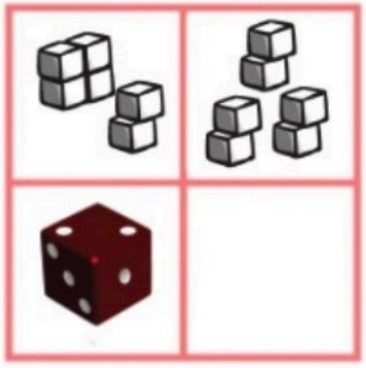
The following description applies to the six following questions.

Determine how the top two pictures are related. Figure out the rule they are following. Then, choose the picture from the possible answers that will have the same relationship with the picture on the bottom left.

For example, in the figure below, look at the two pictures on top. They are related in some way to each other mathematically. The first box has 2 gifts. The second box has 3 gifts. 2 + 1 = 3. Now look at the first bottom box. There is one pair of scissors. Look at the answer choices. Do you see an answer that is related to the scissors in the same way the second box above is related to the first box above? The answer is (B). There is one more pair of scissors than you see in the bottom box, just like there was one more gift in the second box on the top than there was in the first box.



Question 28:





A



B



C



D

Question 29:





A



B

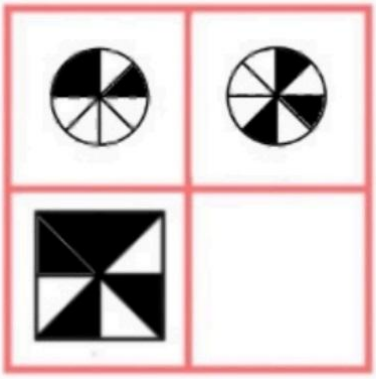


C



D

Question 30:





A



B

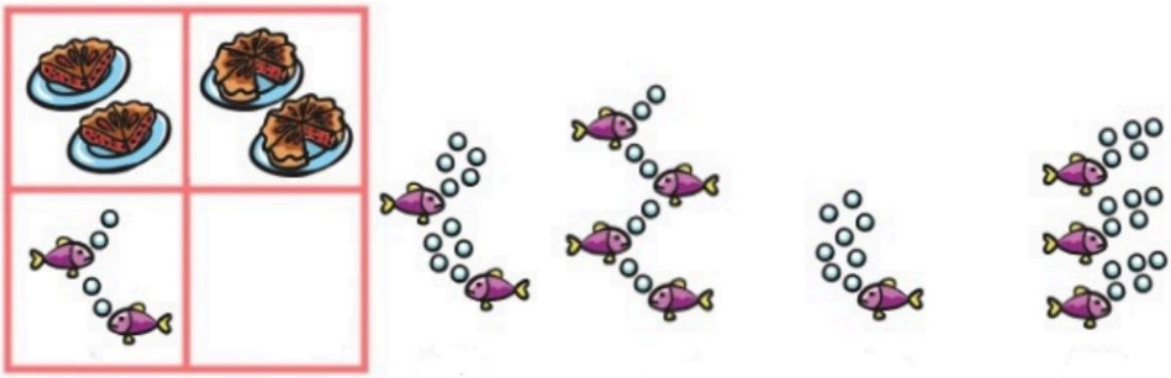


C

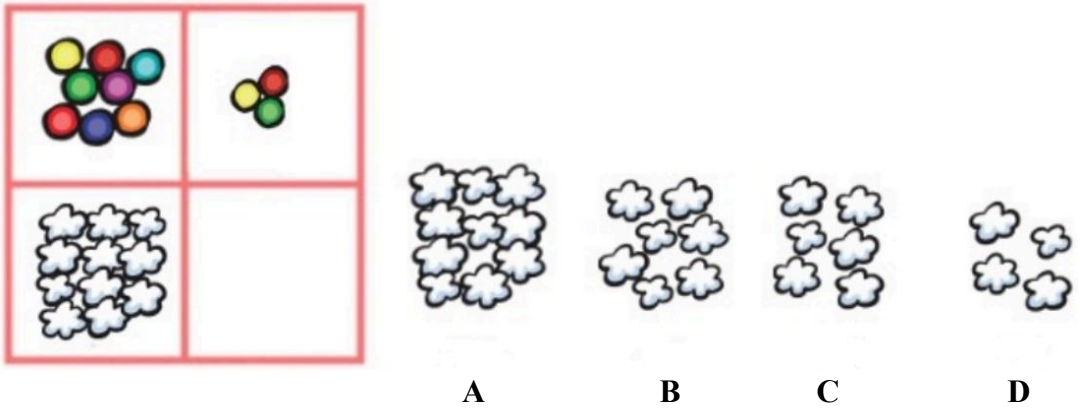


D

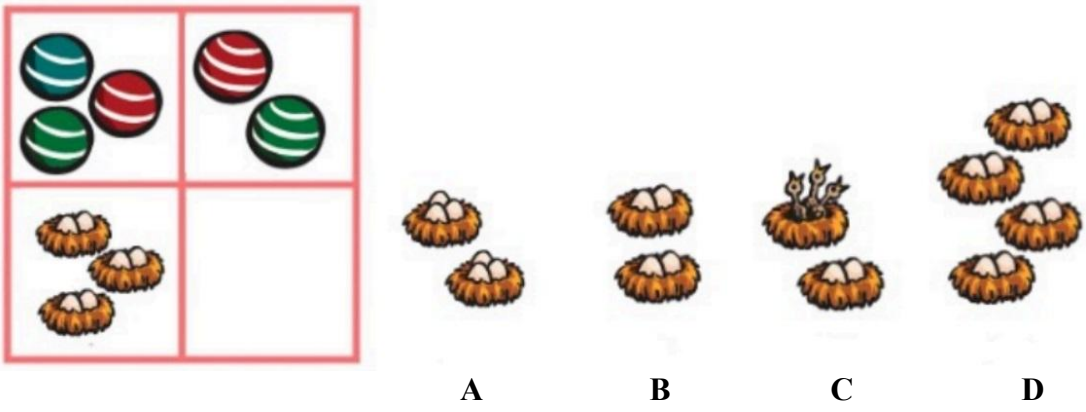
Question 31:



Question 32:



Question 33:



The following description applies to the six following questions.
Choose the number that comes next to continue the pattern or follow the rule.

1 4 7 10 13 ___

A) 14
B) 15
C) 16
D) 17

Look at the numbers. Do you see the pattern that they make? Each number is 3 more than the number before it. So, the rule is to add 3 to each number. Which number comes next in the series? 13 + 3 is 16, so C) is the correct answer.

Question 34:

5 10 11 16 17 ___

A) 19
B) 21
C) 20
D) 22

Question 35:

9 16 11 18 13 ___

A) 14
B) 17
C) 21
D) 20

Question 36:

5 18 31 44 57 ___

A) 70
B) 68
C) 67
D) 65

Question 37:

10 16 12 18 14 ___

A) 16
B) 17
C) 19
D) 20

Question 38:

39 36 41 38 ___ 40

A) 44
B) 43
C) 42
D) 41

Question 39:

33 30 27 24 21 ___

A) 16
B) 17
C) 18
D) 19

Question 40:

In the picture below there are only triangles, circles and squares. Logan marked all squares from the drawing below. Nicole marked all triangles and circles.

Who marked more shapes? By how many?



A) Logan, by 1 B) Logan, by 2 C) Nicole, by 1 D) Nicole, by 2

Question 41:

Laura has 3 fish tanks, each holding 4 fish. James has a total of 10 fish, all in one big fish tank. Who has more fish?

A) Laura

B) James

Question 42:

Lilian crossed out all even numbers from the list. Maria then crossed out every fifth number from the original list. How many numbers are left uncrossed?

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

A) 4

B) 5

C) 6

D) 7

Question 43:

Most numbers listed below can be added to another number in the list to give a sum of 99. However, there are 3 numbers that do not have another number in the list that sums to 99. Two of the numbers are 6 and 67. What is the third number?

97, 15, 84, 42, 67, 21,
36, 57, 2, 6, 78, 26, 86,
77, 13, 63, 8, 73, 22, 29,
91.

A) 13

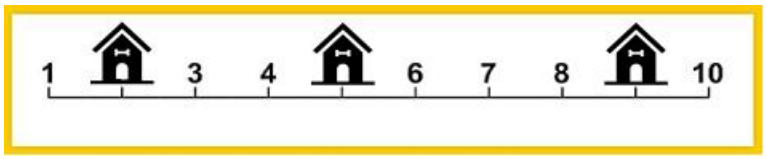
B) 29

C) 36

D) 57

Question 44:

A sum is the result of adding two or more numbers. What is the sum of the numbers covered by the dog houses?



A) 13
B) 14
C) 15
D) 16

Question 45:

Hameed creates a list of three different 3-digit numbers using the following cards as digits in the number. What is the result when he subtracts the smallest number from the largest number on the list?



A) 27
B) 270
C) 297
D) 300

Answers										
Question	1	2	3	4	5	6	7	8	9	10
Answer	**C**	**A**	**D**	**C**	**C**	**B**	**A**	**D**	**D**	**D**
Question	11	12	13	14	15	16	17	18	19	20
Answer	**D**	**B**	**D**	**A**	**B**	**B**	**C**	**A**	**D**	**A**
Question	21	22	23	24	25	26	27	28	29	30
Answer	**C**	**A**	**C**	**A**	**C**	**C**	**A**	**A**	**C**	**C**
Question	31	32	33	34	35	36	37	38	39	40
Answer	**A**	**C**	**A**	**D**	**D**	**A**	**D**	**B**	**C**	**A**
Question	41	42	43	44	45					
Answer	**A**	**C**	**B**	**D**	**C**					