



Reasoning Questions For RRB NTPC PDF

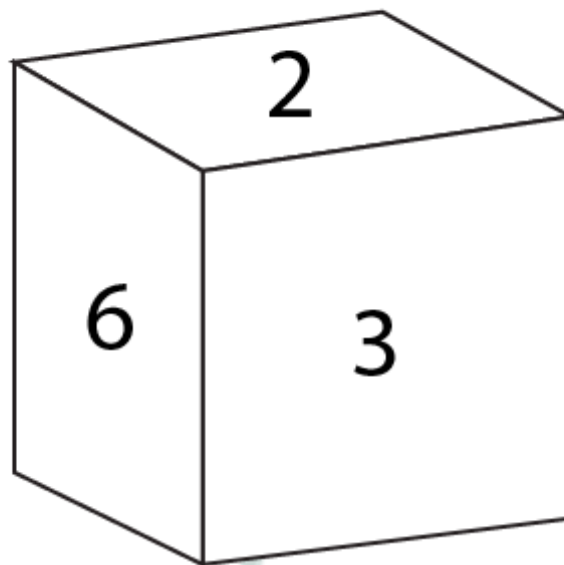
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Instructions

For the following questions answer them individually

Question 1

A standard dice is as shown. The sum of the numbers on the opposite faces of a standard dice is always the same irrespective of which faces are chosen. What is the number on the bottom face?



- A 1
- B 4
- C 5
- D Can't say

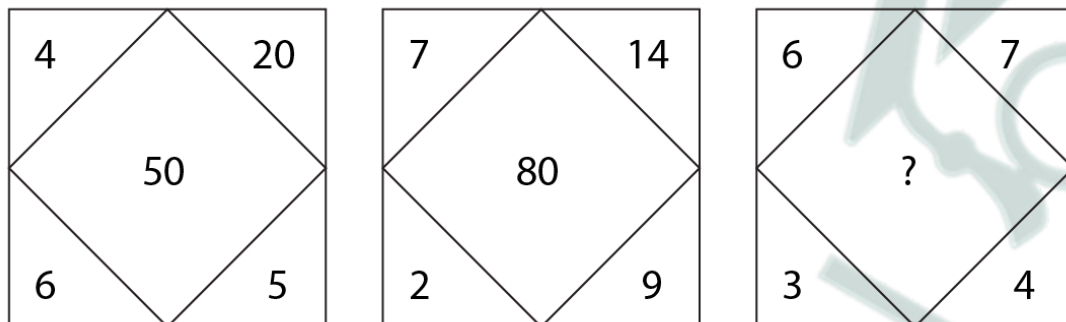
Answer: C

Explanation:

Opposite faces of a dice add up to 7. Hence, the bottom face = $7 - 2 = 5$.

Question 2

Find the missing number?



A 30

B 40

C 50

D 70

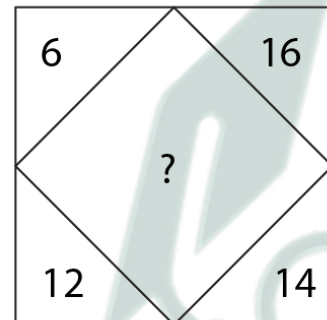
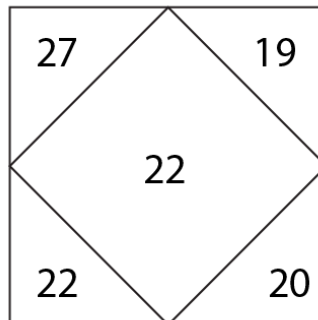
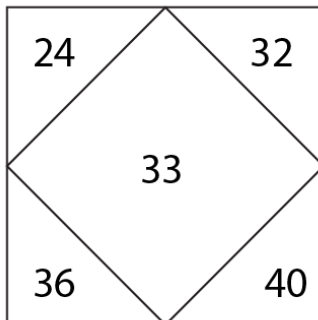
Answer: A

Explanation:

The number in the center is the product of the top two numbers minus the product of the bottom two numbers. Hence, the missing number = $42 - 12 = 30$.

Question 3

Find the missing number?



A 10

B 12

C 14

D 11

Answer: B

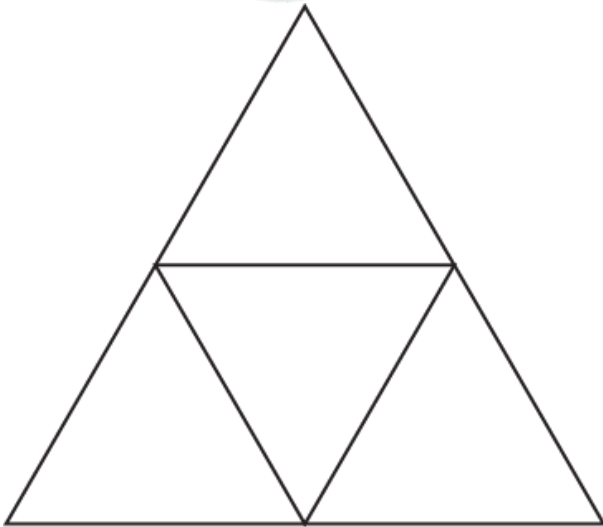
Explanation:

The number in the center is the average of all the numbers in the corners. Hence, the missing number = $(6+16+12+14) / 4 = 48/4=12$

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Question 4

How many triangles do you see?



- A 3
- B 4
- C 5
- D More than 5

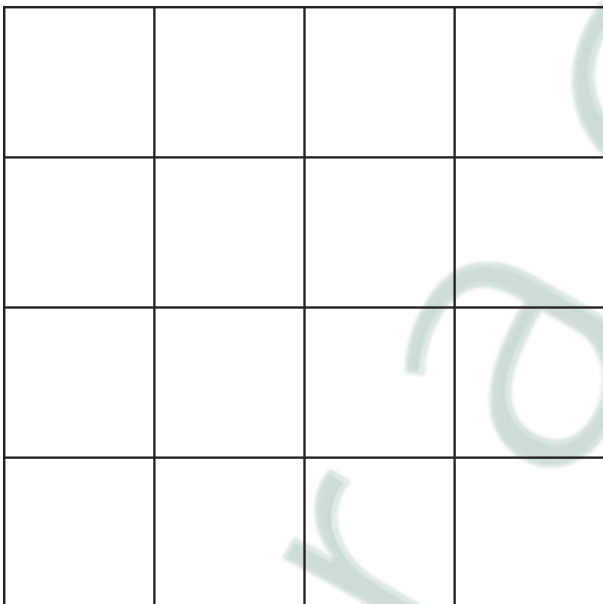
Answer: C

Explanation:

There are 5 triangles - 4 small ones and one large triangle.

Question 5

How many squares are there in this figure?



- A 16
- B 27
- C 29
- D 30

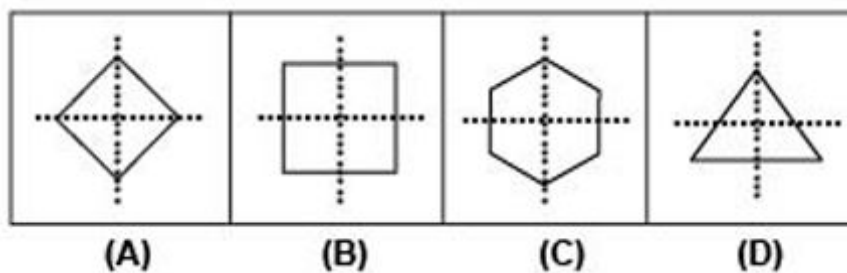
Answer: D

Explanation:

There are 16 squares of 1 unit. There are 9 squares of 4 units. There are 4 squares of 9 units and there is 1 square of 16 units. Hence, there are $16+9+4+1=30$ squares.

Question 6

Study the figures shown in the options below. Three of them are alike in a certain way and hence form a group. Identify the one that doesn't belong to that group?



- A A
- B B
- C C
- D D

Answer: D

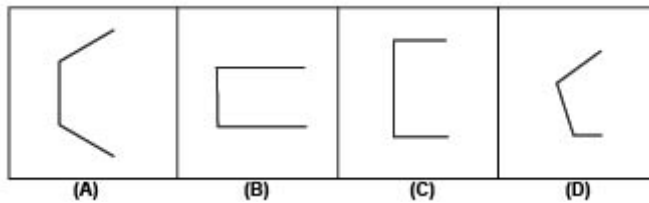
Explanation:

All the figures shown are symmetrical over the X axis except (d).

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Question 7

Three of the four figures given in the options are alike in a certain way and hence form a group. Which of the following doesn't belong to that group?



A A

B B

C C

D D

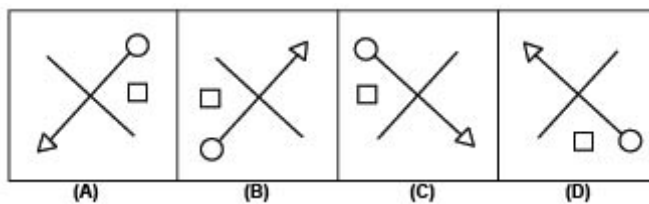
Answer: B

Explanation:

In the given options, we can observe that all the figures have regular polygons cut into half. (a) is half of a regular hexagon (b) is half of a rectangle (c) is half of a regular quadrilateral (square). (d) is an half of a pentagon, which is also a regular polygon.

Question 8

Three of the four figures given in the options are alike in a certain way and hence form a group. Select the option that does not belong to the group.



A A

B B

C C

D D

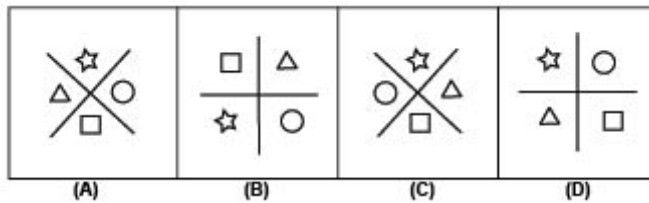
Answer: C

Explanation:

In each of the options, the square is to the clockwise side of the circle except in (c), where the square is to the anti-clockwise side.

Question 9

Three of the four figures are alike in a certain way and hence form a group. Which of the following figures doesn't belong to that group?



A A

B B

C C

D D

Answer: B

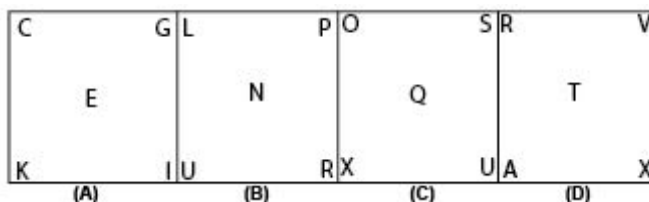
Explanation:

In each of the figures, the star is opposite to the square and the circle is opposite to the triangle, except (b).

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Question 10

Three of the four figures are alike in a certain way and hence form a group. Which of the following figures doesn't belong to that group?



A A

B B

C C

D D

Answer: A

Explanation:

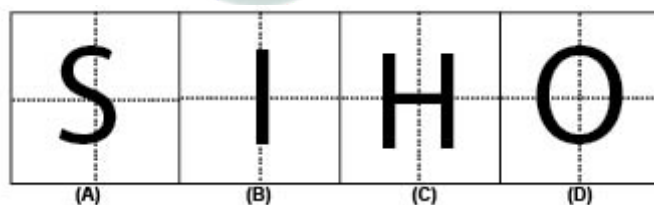
In each of the following figures, the series starts with the top left letter.

For example, in (b), L is the first letter. The second letter is $L + 2 = N$. The third letter is $N + 2 = P$. The fourth letter is $P + 2 = R$. The fifth letter is $R + 3 = U$.

So, this pattern is followed in every diagram except (a), which follows $2 + 2 + 2 + 2$.

Question 11

Three of the four figures are alike in a certain way and hence form a group. Which of the following doesn't belong to the group?



A A

B B

C C

D D

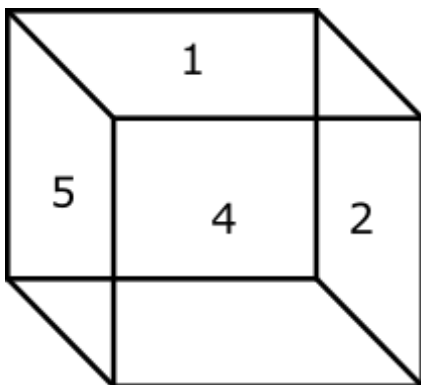
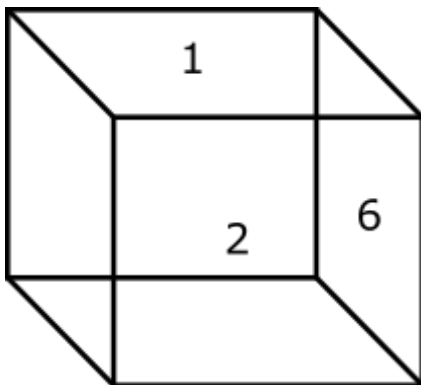
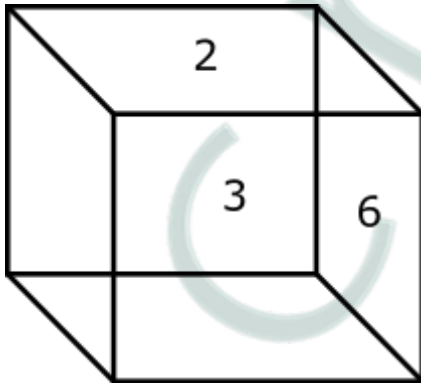
Answer: A

Explanation:

In the figures shown, all are symmetric on both the X axis and the Y axis except (a), which is not symmetric on either the X axis or the Y axis.

Question 12

Find the number which must be opposite to 6 on the given dice.



- A 5
- B 4
- C 1
- D Can't be said with certainty

Answer: B

Explanation:

From the first two figures, we can infer that 1 must be opposite to 3. From the third figure we can see that 2 is opposite to 5. Hence, 4 must be opposite to 6. Thus, option B is the correct answer.

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Question 13

Find the number which will be opposite to 4 in the cubes shown below.



- A 5
- B 2
- C 3
- D Cannot be determined

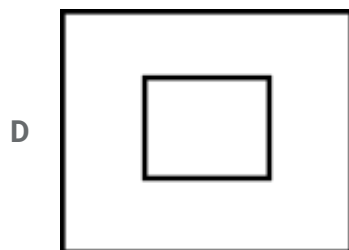
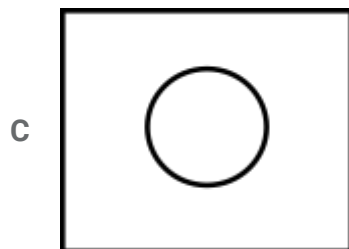
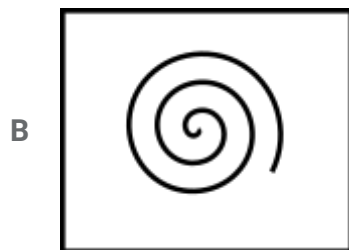
Answer: C

Explanation:

From the two given cubes, we can see that 2, 1, 5 and 6 are adjacent to 3. Hence, 4 must be opposite to 3. Thus, option C is the correct answer.

Question 14

Four figures are given below. Three of these figures can be grouped together while fourth cannot be put in the same group. Identify the odd one out.



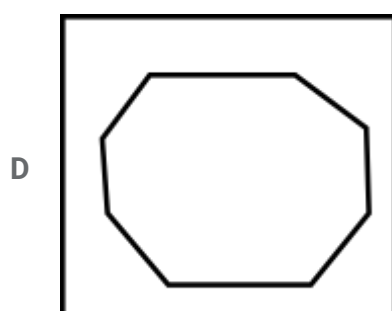
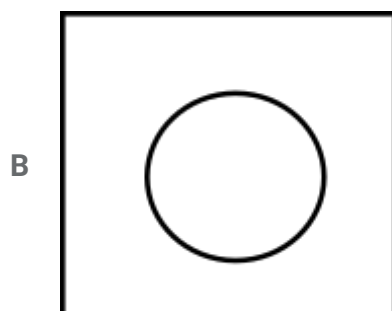
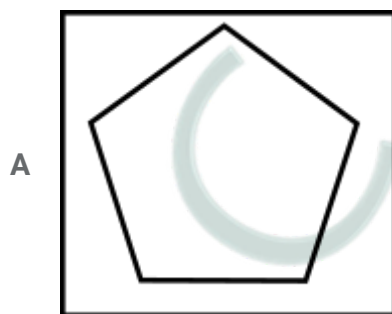
Answer: B

Explanation:

Options A, C and D are closed figures while option B is an open figure. Hence, option B is the odd one out.

Question 15

Pick the option which should come next in the series.



Answer: A

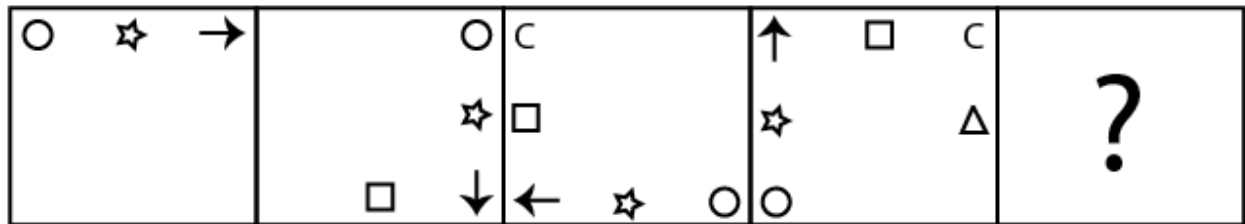
Explanation:

The pattern being followed here is that in the second figure 3 addition lines are added to the first figure. In third figure 1 line is subtracted from the second figure. In the fourth figure 3 lines are again added. Hence, one line will be subtracted from the fourth figure to get the missing figure. Hence, option A is the correct answer.

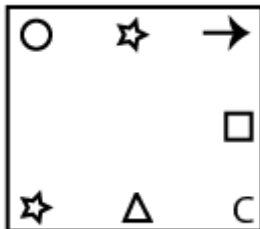
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Question 16

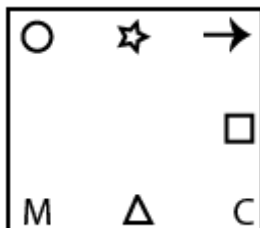
Which figure among the option must logically replace the '?' in the diagram below -



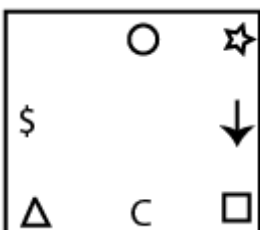
A



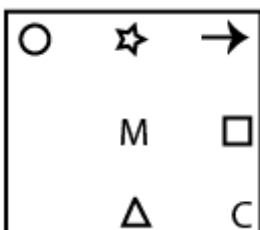
B



C



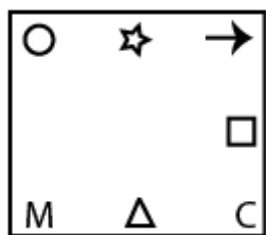
D



Answer: B

Explanation:

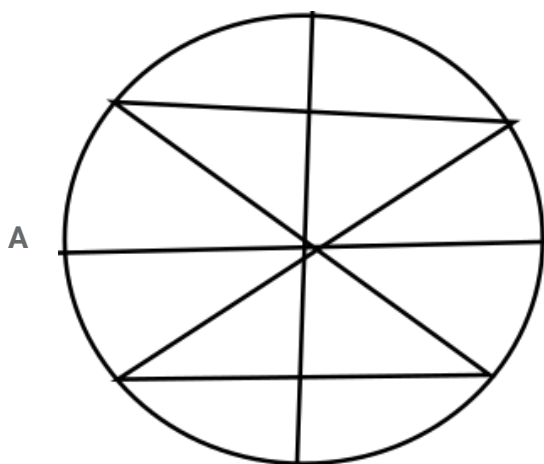
We see that new symbol is added everytime at the start and the earlier symbols move along the sides of the square in clockwise direction. Thus we get,



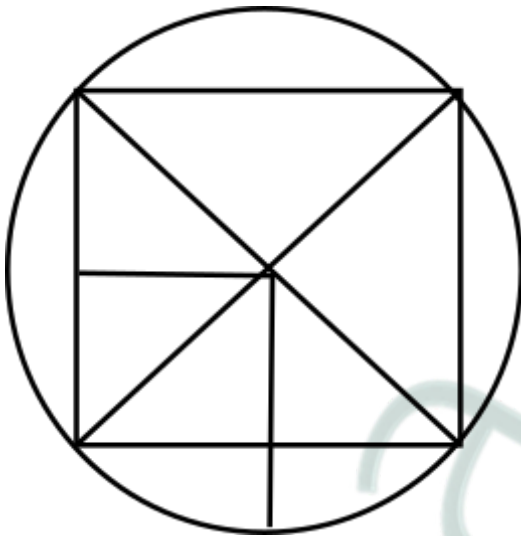
Hence, option B is right choice.

Question 17

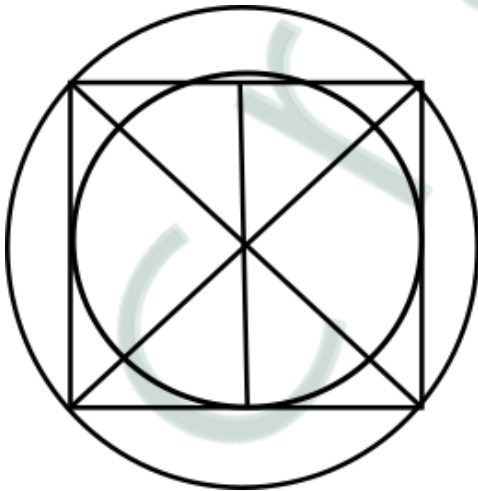
A figure is given below. Choose the option in which the question figure is embedded.



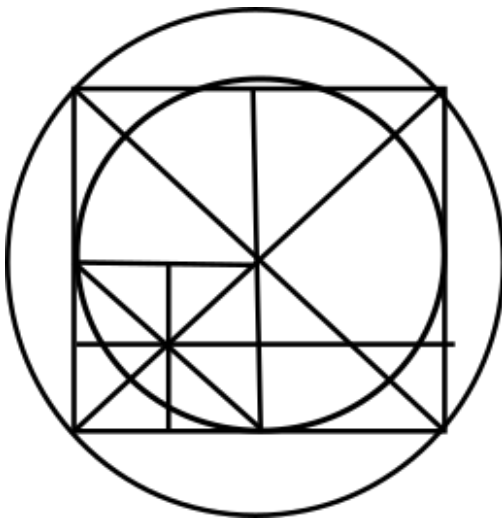
B



C



D



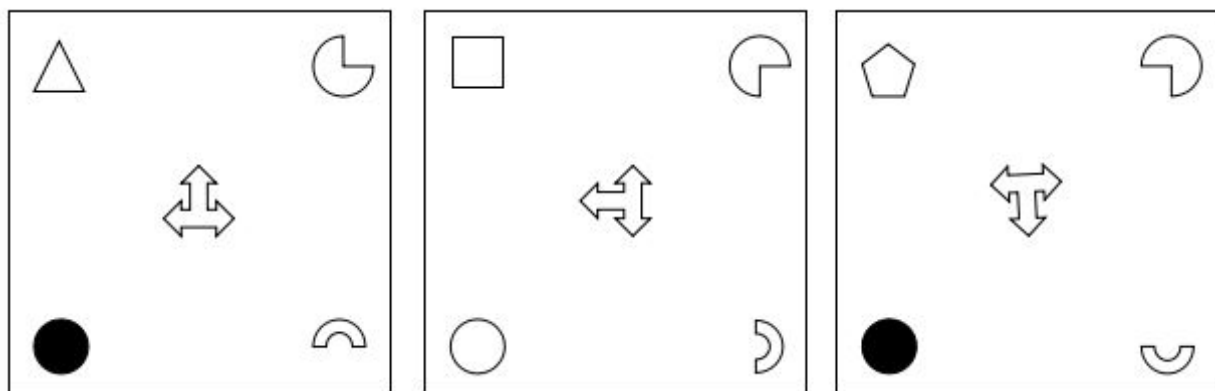
Answer: D

Explanation:

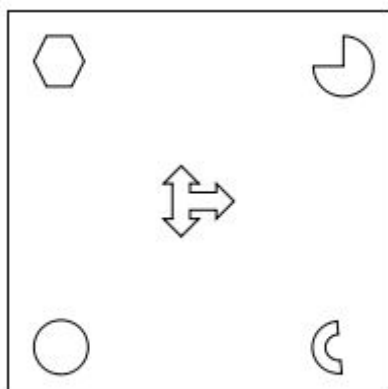
Option A is missing the square which is given in the question figure. Option B miss out on the vertical and horizontal lines at the center of the square. The question figure is embedded in the option D. Hence, option D is the correct answer.

Question 18

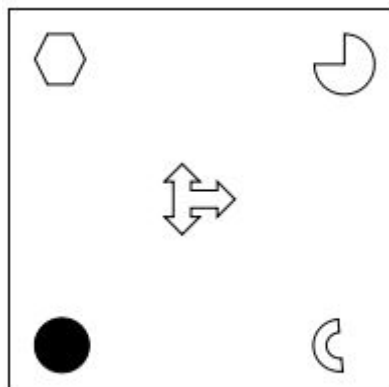
Which of the following images must logically complete the given series?



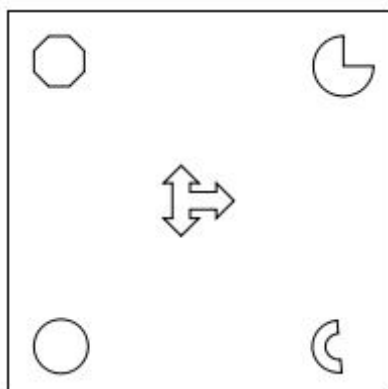
A

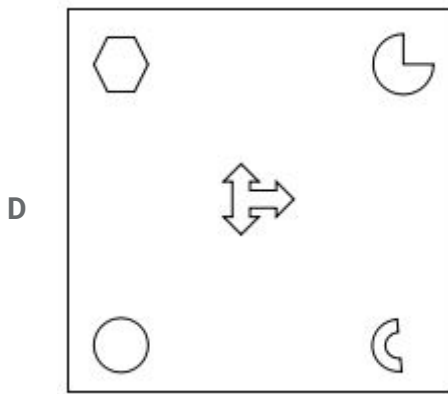


B



C





Answer: A

Explanation:

The number of sides of the image at the top left corner increases by 1 with each subsequent step. Therefore, the answer image must contain a hexagon in the top left corner.

The circle alternates between being dark and light. Therefore, in the answer, the circle must be light.

The sector at the top right corner rotates 90 degrees in the clockwise direction. Therefore, in the answer, the incomplete part of the circle must be in the top left quadrant of the circle.

The horse shoe shaped object at the bottom right corner rotates 90 degrees in the clockwise direction. Therefore, the open end of the horse shoe must face the left edge in the answer.

The triple arrow setup at the centre of the image rotates 90 degrees anticlockwise in each subsequent step. Therefore, the unbalanced arrow must be facing the left edge in the answer image.

Only option A satisfies all these conditions. Therefore, option A is the right answer.

RRB Group-D Previous Papers

Question 19

Five friends Akhil, Brinda, Cyril, Dharani, and Edward are born in the same year. The months in which the friends are born are January, March, August, September, and December. Further, it is known that Akhil is not the youngest or the oldest among the friends. The same is the case with Dharani. Cyril is older than Brinda but younger than Edward. Cyril is older than Dharani.

Which of the following pairs (name and month of birth) is definitely matched incorrectly?

- A Cyril - August
- B Dharani - August
- C Akhil - March

D Dharani - March

Answer: D

Explanation:

It has been given that neither Akhil nor Dharani is the oldest or youngest among the five persons. Therefore, they should be the second, third, or fourth oldest person in the group. Cyril is older than Brinda but younger than Edward. Therefore, Edward must be the oldest person and Brinda must be the youngest person in the group.

Cyril is older than Dharani. Therefore, 3 arrangements are possible.

Akhil, Cyril, Dharani

Cyril, Akhil, Dharani

Cyril, Dharani, Akhil

Edward - January

Brinda - December

Akhil - March, August, September

Dharani - August, September

Cyril - March, August

As we can see, Dharani should have born in either August or September and hence, option D is the right answer.

Question 20

Amar, Arun, Arjun, and Akhil are 4 friends working in Delhi. Each one of them is from a different city among Chennai, Bangalore, Hyderabad, and Pune. Further, it is known that,

Amar is not from Chennai or Bangalore.

Arjun is not from Hyderabad or Pune.

Akhil is not from Pune or Bangalore.

Arun is not from Chennai or Hyderabad.

Consider the following statements.

1.Amar is not from Pune.

2.Arjun is from Chennai.

3.Akhil is not from Bangalore

Each of the statements given above, when considered individually, results in a person-city distribution. The person city distribution obtained for which of the following statements is the same?

A 1 and 2

B 2 and 3

C 1 and 3

D All 3 statements result in the same distribution

Answer: B

Explanation:

Let us tabulate the given information.

	Amar	Arun	Arjun	Akhil
Possible cities	Pune Hyderabad	Chennai Bangalore	Chennai Hyderabad	Bangalore Pune
Cities eliminated	Chennai Bangalore	Hyderabad Pune	Pune Bangalore	Chennai Hyderabad

Let us evaluate the given statements.

Statement 1:

If Amar is not from Pune, then he should be from Hyderabad. Arjun should be from Chennai. Arun should be from Bangalore and Akhil should be from Pune.

Statement 2:

If Arjun is from Chennai, then Arun should be from Bangalore, Akhil should be from Pune, and Amar should be from Hyderabad.

Statement 3:

If Akhil is not from Bangalore, then he should be from Pune. Amar should be from Hyderabad, Arjun should be from Chennai and Arun should be from Bangalore.

As we can see, statements 2 and 3 result in the same person-city distribution and hence, option B is the right answer.

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