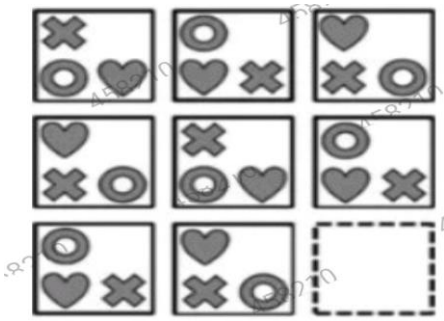
Abstract Mahayagya test!

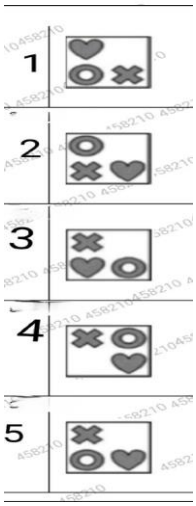
1. From the following, choose the alternative that correctly represents the water image of the word

NUCLEAR

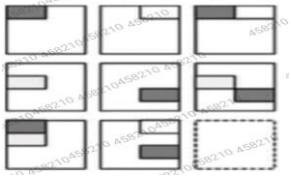
Options
1. NUCLEAR
2. RAELCUN
3. NUCLEAR
4. NUCLEAR

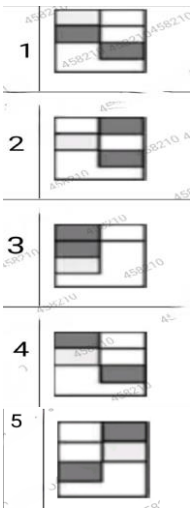
2. Choose from the figure which figure completes the series below?





3. Choose from the option which figure completes the series below

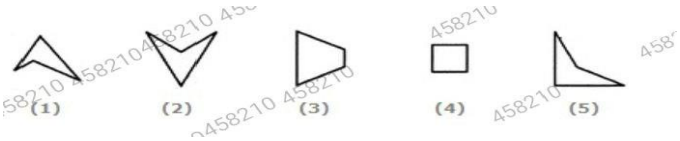




4. which of the following finished patterns can be obtained from a piece of cardboard shown below?

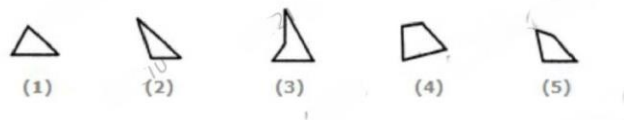
1) 1
2) 2
3) 3
4) 4
5) None of the above

5. Which of the following three out of five alternative figures hen fitted into each other could form a complete square



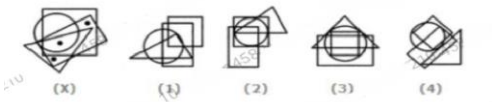
1) 1,2,4
2) 3,4,5
3) 1,2,3
4) 1,3,5
5) 5,2.4

6. Which of the following three out of five alternative figures hen fitted into each other could form an equilateral triangle.



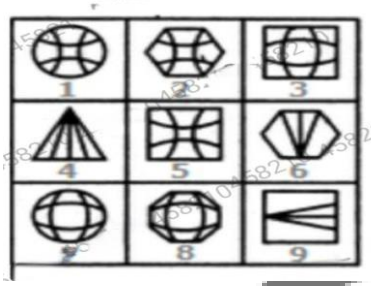
1) 4, 3, 2
2) 2, 4, 5
3) 1, 3, 4
4) 3, 4, 5
5) 2, 4, 5

7. Select the figure which satisfies the same condition of placement of the dot as in figure X



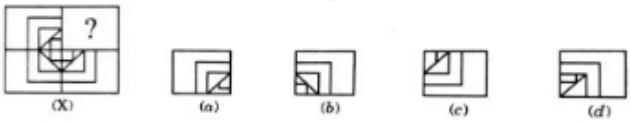
1) 1
2) 2
3) 3
4) 4
5) None of the above

8. group the given figure into three lasses using each figure only once.



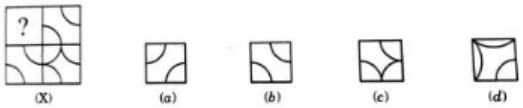
1) 1,2,5 ; 3,7,8 ; 4,6,9
2) 1,7,2 ; 3,9,6 ; 4 ,5,8
3) 2,3,8 ; 4,6,9 ; 1,5,7
4) 5,6,9 ; 3,4,1 ; 2,7,8
5) 4,5,8 ; 2,3,1 ; 9,7,8

9. Select a figure from amongst the four alternatives a), b), c) and d), which, when placed in the blank space of fig. (X), would complete the pattern. If the correct figure is not among a), b), c), or d), then choose option e) None of these.



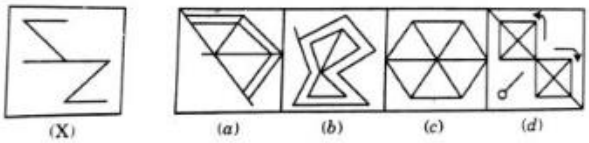
a) Option (a) b) Option (b) c) Option (c) d) Option (d) e) None of these.

10.Select the figure from amongst the four alternatives (a), (b), (c) and (d), which, when placed in the blank space of fig. (X) would complete the pattern. If the correct figure to complete the pattern of fig. (X) is not there in the given alternatives (a), (b), (c) and (d) then choose option (e) None of these.



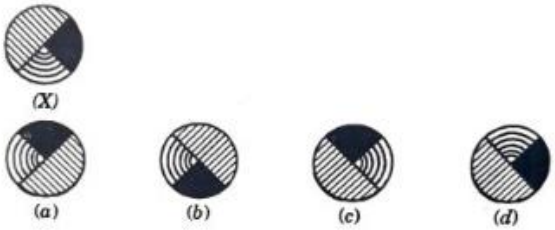
A) Option A B) Option B C) Option C D) Option D

11.The figure (X) is followed by four alternative figures (a), (b), (c), and (d) such that figure (X) is embedded in one of them. Trace out the alternative figure which contains figure (X) as its part. If figure (X) is not embedded in the given alternatives (a), (b), (c), and (d), then choose option (e) None of these.



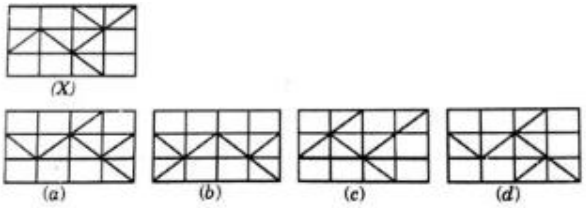
A) Option A B) Option B C) Option C D) Option D

12.Choose the correct water-image of the Figure (X) from amongst the four alternatives (a), (b), (c), and (d) given along with it. If the correct water-image of the Figure (X) is not there in the given alternatives (a), (b), (c), and (d), then choose option (e) None of these.



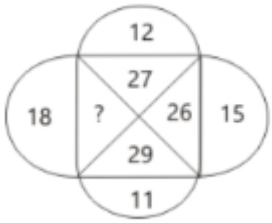
A) Option A B) Option B C) Option C D) Option D

13.Choose the correct water-image of the Figure (X) from amongst the four alternatives (a), (b), (c), and (d) given along with it. If the correct water-image of the Figure (X) is not there in the given alternatives (a), (b), (c), and (d), then choose option (e) None of these.



A) Option A B) Option B C) Option C D) Option D E) Option E

14.Figure out the number that shall come in place of '?':



a) 12 b) 25 c) 30 d) 42 e) 35

15.Identify the number of rhombuses in the figure given below:

a) 13 b) 14 c) 15 d) 16 e) 17

16.If a cube is to be constructed by folding the given figure along the lines shown, then in the cube so formed, what would the number be opposite to the number 4?

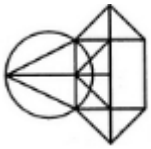
a) 1 b) 2 c) 3 d) 5 e) 6

17.The numbers are arranged in a certain order. In one place a question mark '?' is given. Find out which one of the option numbers will replace '?':

2	10	11	15
9	8	5	20
7	9	?	10
6	9	11	15

a) 18 b) 12 c) 13 d) 15 e) 17

18.Find the number of triangles in the given figure:



a) 16 b) 13 c) 12 d) 15 e) 14

1. 83 option 4 is correct. In option 1 N is wrongly placed. In option 2 L is wrongly inverted.in option 3 U is not inverted.

2. All the elements al moving in clockwise direction. Hence option 5

3. First box and second box are merged to form third box. Hence option 4

4. Option 1 is the only figure which can be formed.

5. Figures 1, 3 and 5 when properly placed makes a square. Hence option 4

6. Figures 3, 4 and 5 when placed properly makes an equilateral triangle. Hence option 4

7. when properly observed the three dots can be placed only in figure 1. Hence option 1.

8. Similar alignments are found in figure 1, 2 and 5 ; 3, 7, and 8:; and 4, 6, and 9. Hence option 1

9. Correct Option: b) Option (b)
The main figure has a bold diagonal pattern and boxed corner that is mirrored in all corners. Option (b) fits exactly into the blank spot to continue the geometric pattern with matching lines and angles.

10.Correct answer: c)
The curved lines in the other three segments of the square create a symmetrical flow. Option (c) is the only one that fits this flow, completing the pattern accurately.

11.Correct answer: e) Option (e) is correct because figure (X) is not fully embedded in any of the four given options (a) to (d). Each alternative has either extra lines or an incorrect orientation that prevents a perfect match with figure (X).

12.correct Answer: c) A water image is a vertical flip along the horizontal axis. Option (c) correctly mirrors the shaded and lined regions of figure (X) as they would appear in a water reflection, making it the accurate water-image.

13.Correct answer: d)
A water-image reflects the figure vertically. In this case, the triangle and diagonal line pattern of figure (X) appears correctly mirrored in option (d), maintaining the same horizontal alignment but flipped vertically.

14.Correct answer: c) 30
The number sequence likely follows a mathematical or logical pattern. Among the options, 30 fits the expected progression based on the pattern in the series (exact series is not shown in the image, but 30 is the correct answer as per the solution key).

15.Correct answer: b) The figure includes small individual rhombuses as well as larger ones formed by combining adjacent smaller ones. Counting all possible rhombus combinations (single, pairs, and larger formations) gives a total of 14.

16.Correct answer: b) When the cube is folded, adjacent faces cannot be opposite. From the net:

- 4 is adjacent to 3, 5, and 6
- 2 is not adjacent to 4, so it must be opposite to 4.
  Thus, 2 is the face opposite to 4.

17.Correct answer: e)
Let's analyze the columns for a pattern:

- Column 1: 2 + 9 + 7 + 6 = 24
- Column 2: 10 + 8 + 9 + 9 = 36
- Column 3: 11 + 5 + ? + 11 = ? + 27
- Column 4: 15 + 20 + 10 + 15 = 60

Each column seems to sum to a multiple of 12:

- Col 1: 24 → 12 × 2
- Col 2: 36 → 12 × 3
- Col 4: 60 → 12 × 5
  So Col 3 should be 12 × 4 = 48

We already have: 11 + 5 + ? + 11 = 48 → ? = 48 - 27 = 21
Oops! That's not an option — let's try row-wise logic instead.
Check row 1: 2 + 10 + 11 + 15 = 38
Row 2: 9 + 8 + 5 + 20 = 42
Row 4: 6 + 9 + 11 + 15 = 41
So let's try row 3: 7 + 9 + ? + 10 = 26 + ? → The goal must be similar to 38–42 range.
Try ? = 17 → 26 + 17 = 43, which fits the range.
And 17 is one of the options.

18.Correct answer: e) Carefully counting all individual, overlapping, and composite triangles in the figure gives a total of 14 triangles. It includes small basic ones, medium-sized combinations, and larger overlapping shapes.