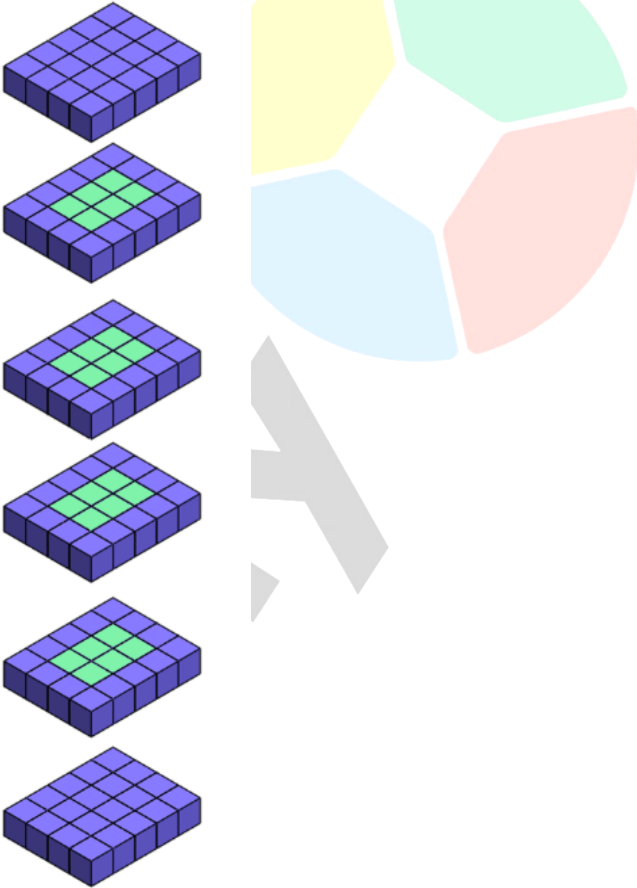
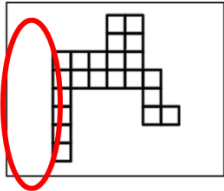
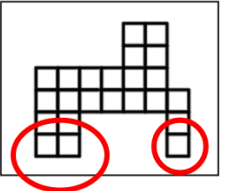
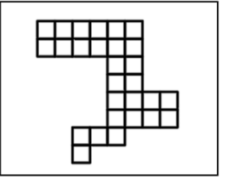
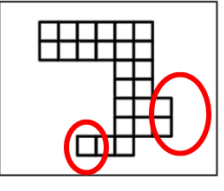


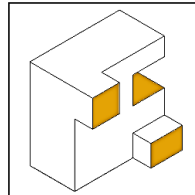
NO.	ANSWER
1	<p>If the whole arrangement is immersed, then it will be like the image below</p>  <ul style="list-style-type: none"> <li>• For the First Layer, there are no unpainted cubes.</li> <li>• For the Second, Third, Fourth, Fifth Layer, its outside cubes are all immersed in paint. Thus, we have the inner cubes being unpainted which is a total of <math>6 \times 4</math> layers = 24 cubes.</li> <li>• All the cubes of the Bottom Layer have at least 1 surface being exposed. Thus, there are no unpainted cubes in this Layer.</li> </ul> <p>In total, we have 24 cubes. <b>Hence, the answer is Letter C.</b></p>
2	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A.</p>  </div> <div style="text-align: center;"> <p>B.</p>  </div> <div style="text-align: center;"> <p>C.</p>  </div> <div style="text-align: center;"> <p>D.</p>  </div> </div> <ul style="list-style-type: none"> <li>• Option A is not the answer since there should be 2 layers instead of 1.</li> <li>• Option B will leave gaps in the circled portion above.</li> </ul>

- Option C fills the gaps perfectly.
- Option D will leave gaps in the circled portion above.

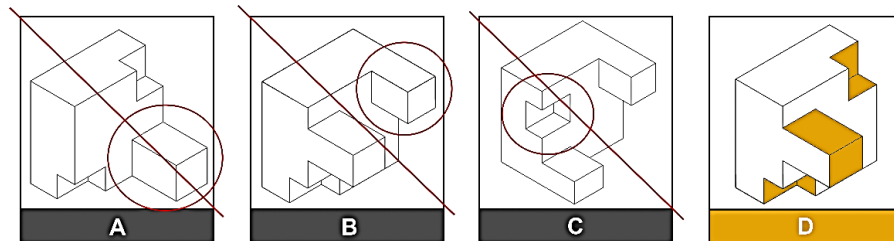
**Hence, the answer is Letter C.**

3

**A piece of puzzle is shown below:**

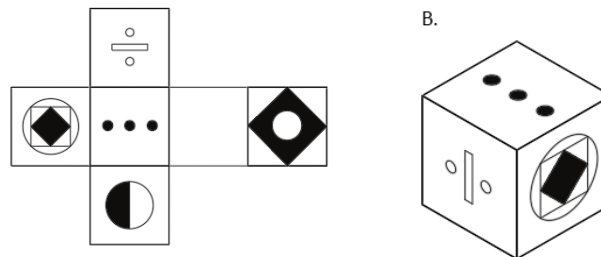


**Which one of the following pieces will fit the piece above to make a complete cube?**



**Option D is the correct answer.**

4



Option A satisfies the condition when the cube is being formed.  
 Option C satisfies the condition when the cube is being formed.  
 Option D satisfies the condition when the cube is being formed.  
 Option B is not applicable since the "3-Dot Line" should be parallel to the "Division Symbol".

**Hence, the answer is Letter B.**

5

- Option A is not the answer since it has a total of 7 sides.
- Option C is not the answer since one side of the triangles is smaller compared to the given figure.
- Option D is not the answer since it does not have equal rectangles sizes.

**Hence, the answer is Letter B.**

6

The correct illustration of the assembly of the house can only be either from these two combinations:

Combination 1	Combination 2
Gray front roof	White front roof
Red front wall	Gray front wall
White side wall + window	Gray side wall + window
Gray side roof	Red side roof

Option A matches with Combination 2. **Hence, the answer is Letter A.**

7

A.

Option A satisfies the condition when folded.  
Option B is not the answer since there are missing lines.  
Option C is not the answer since there are missing lines.  
Option D is not the answer since there are missing lines.

**Hence, the answer is Letter A.**

8

D.

Option A is not applicable since the “Circle w/ Dot” and the “Window Box” should be parallel.  
Option B is not applicable since the “Quarter Circles” and the “3-Dot Line” should be parallel.  
Option C is not applicable because of the orientation of the 3-Dot Line.  
Option D satisfies the condition when the cube is being formed.

**Hence, the answer is Letter D.**

9

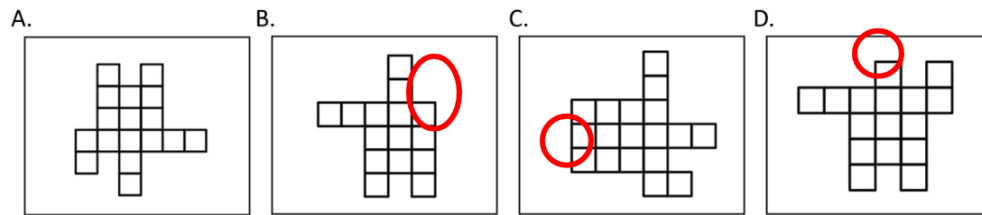
A. B. C. D.

- Option A one square that is fully shaded.
- Option B is not the answer because of the orientation of the circled portion above.

- Option C has no shade on the circled portion above.
- Option D is a rotation of the object.

**Hence, the answer is Letter D.**

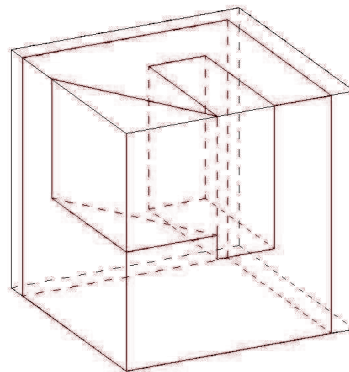
10



- Option A fills the gaps perfectly.
- Option B will leave gaps in the circled portion above.
- Option C has extra squares that will overlap the figure.
- Option D will leave gaps in the circled portion above.

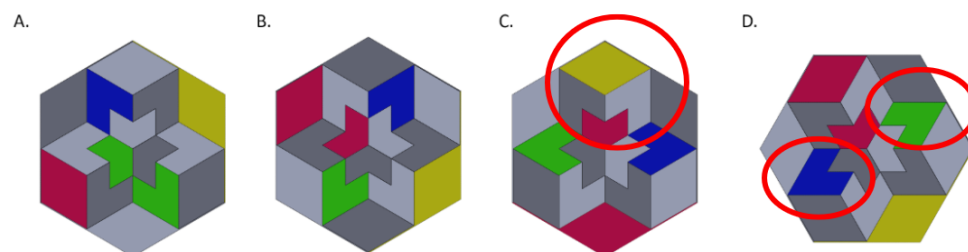
**Hence, the answer is Letter A.**

11



Among all the choices, only the figure in option D completes the puzzle. **Hence, the answer is Letter D.**

12

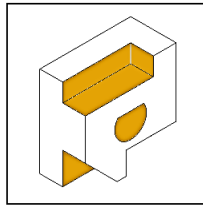


- Yellow should be opposite to Red
- Inside colour is red (That eliminates Option A)
- Option C is not the answer since the red shade is not properly placed.
- Option D is not the answer because the green and blue colours are swapped.

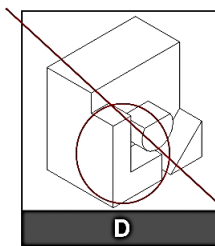
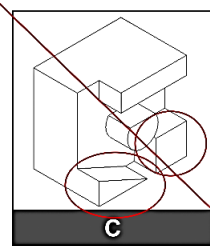
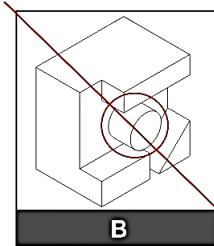
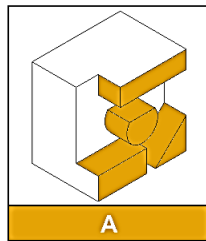
**Hence, the answer is Letter B.**

13

A piece of puzzle is shown below:



Which one of the following pieces will fit the piece above to make a complete cube?



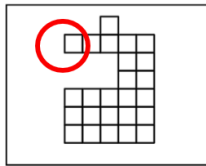
14

1. Look at both the first and third row, from left to right, their arrows move counter-clockwise.
2. Diagonally, if you look at the first tile of the first row and the last tile of the third row, you will see the arrows point in the same direction.
3. By following the pattern of the first two steps, then we can determine that the answer is E.

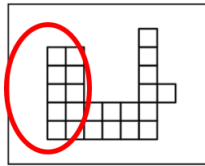
Option E is the correct answer.

15

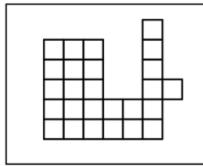
A.



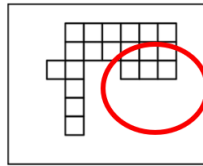
B.



C.



D.



- Option A will leave 1 box gap in the circled portion above.
- Option B is not the answer since there should be 3 layers instead of 2.
- Option C fills the gaps perfectly.
- Option D will leave gaps in the circled portion above.

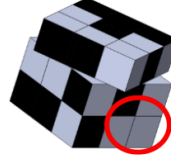
Hence, the answer is Letter C.

16

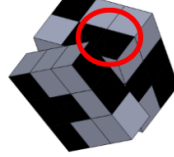
A.



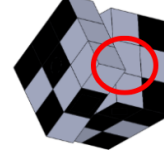
B.



C.



D.

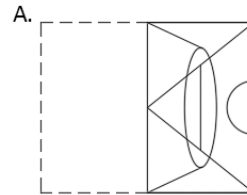
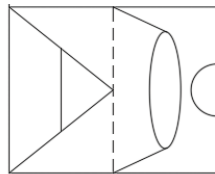


- Option A is a rotation of the object.

- Option B has no shade on the circled portion above.
- Option C has a wrong shaded square part.
- Option D has no shade on the circled portion above.

**Hence, the answer is letter A.**

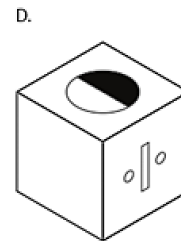
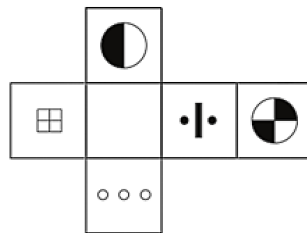
17



Option A satisfies the condition when folded.  
 Option B is not the answer since there are missing lines.  
 Option C is not the answer since there are missing lines.  
 Option D is not the answer since a small half circle is misplaced.

**Hence, the answer is Letter A.**

18

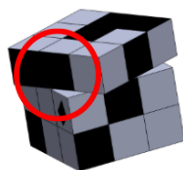


Option A satisfies the condition when the cube is being formed.  
 Option B satisfies the condition when the cube is being formed.  
 Option C satisfies the condition when the cube is being formed.  
 Option D is not applicable since the Division Symbol is not shaded.

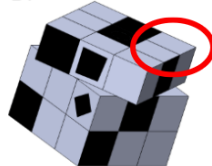
**Hence, the answer is Letter D.**

19

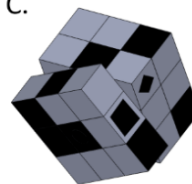
A.



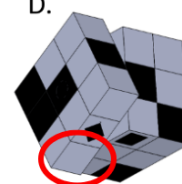
B.



C.



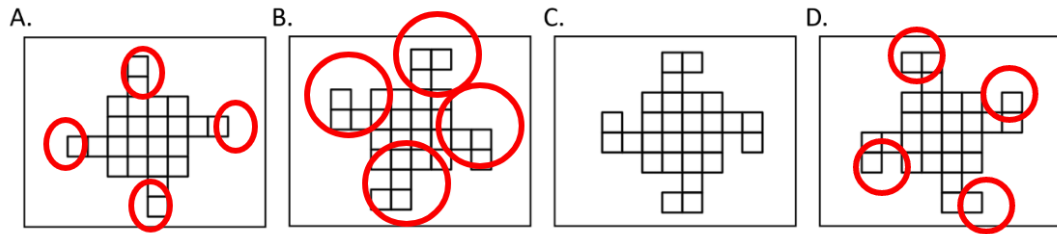
D.



- Option A one square that is fully shaded.
- Option B has no shade on the circled portion above.
- Option C is a rotation of the object.
- Option D has no shade on the circled portion above.

**Hence, the answer is Letter C.**

20



- Option A has missing squares which are encircled above.
- Option B will leave gaps since placements of the encircled squares above will not fit the figure.
- Option C fills the gaps perfectly.
- Option D has the wrong orientation of square parts.

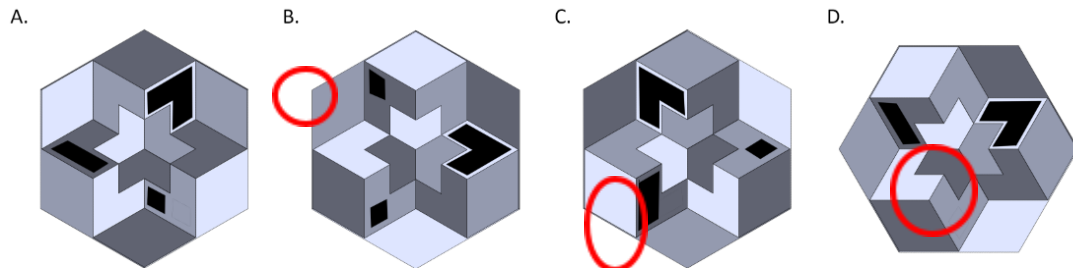
**Hence, the answer is Letter C.**

21



The encircled portion in the figure above only shows one broad line when it should be two. **Option A is the correct answer.**

22

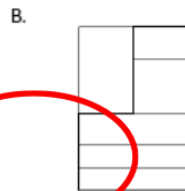


- Option B is not the answer because of the orientation of the circled portion above.
- Option C is not the answer because of the orientation of the circled portion above.
- Option D is not the answer because of the missing small square shade.

**Option A is the correct answer.**

23

Option A is the Right View, Option B is the Right View but has an extra line, Option C is the Top View, and Option D is the Front View. **Option B is the correct answer.**

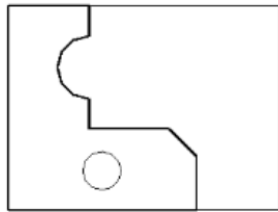


24	<p>Option B is not the answer since it will only provide three layers when viewed from above.</p> <p>Option C is not the answer since it will only provide three layers when viewed from above.</p> <p>Option D is not the answer since it will provide five layers when viewed from above.</p> <p>Option A satisfies the condition.</p> <p><b>Option A is the correct answer.</b></p>
25	<p>Option B is not the answer since it has a total of 8 sides.</p> <p>Option C is not the answer since the triangles are smaller compared to the given figure.</p> <p>Option D is not the answer since it has a total of 9 sides.</p> <p><b>Option A is the correct answer.</b></p>
26	<p>Option A is not the answer because this area should emphasise a gap. (see picture below)</p> <p>Option B is not the answer because there is an extra extruded part. (see picture below)</p> <p>Option D is not the answer because there is an extra extruded part. (see picture below)</p> <p>Option C satisfies the condition.</p> <div style="text-align: center;"> </div> <p><b>Option C is the correct answer.</b></p>
27	<p>Making the cube into a flat image based on the given would result in:</p> <div style="text-align: center;"> </div> <p><b>Option C is the correct answer.</b></p>
28	<p>Option B is not the answer since upper triangles are of the same size as the lower triangles.</p> <p>Option C is not the answer since it has a total of 8 sides.</p> <p>Option D is not the answer since it does not have equal rectangles sizes.</p> <p><b>Option A is the correct answer.</b></p>
29	<p>Option A is the Front View.</p> <p>Option B is the Front View but has a missing circle.</p> <p>Option C is the Right View but has missing cut lines.</p>

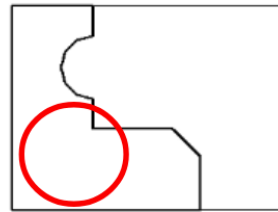


Option D is the Right View but has a missing extruded circle part.

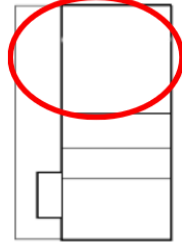
A.



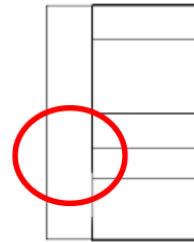
B.



C.



D.

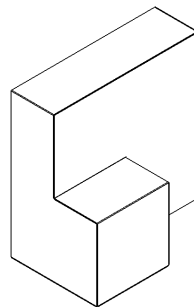


**Option A is the correct answer.**

30

Option B can be folded up to form the given object.

Options A, C, and D will not form the given object as they will form the object below:



**Option B is the correct answer.**

31

In option A, the opposite sides are 6 and 1. When added together, the result is 7.

= It is a normal dice.

In option B, the opposite sides are 6 and 3. When added together, the result is 9.

= It is not a normal dice.

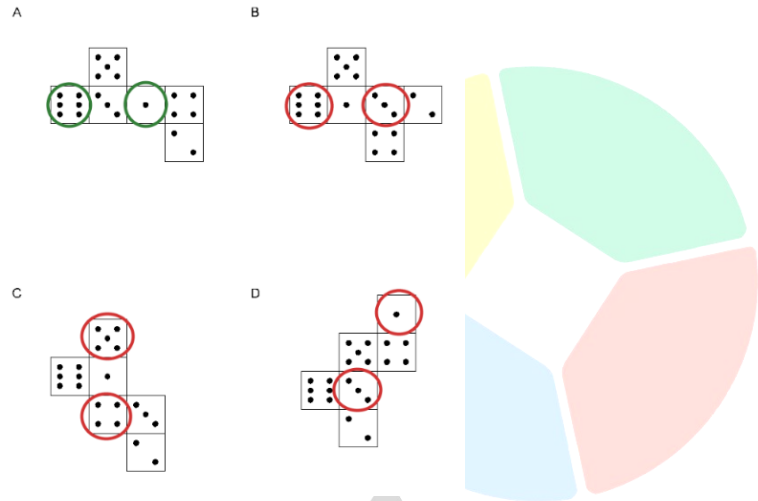
In option C, the opposite sides are 5 and 4. When added together, the result is 9.

= It is not a normal dice.

In option D, the opposite sides are 3 and 1. When added together, the result is 4.

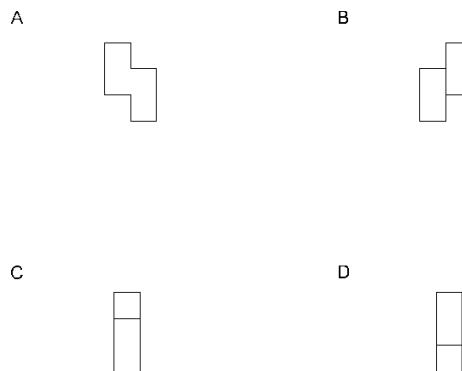
= It is not a normal dice.

**Option A is the correct answer.**



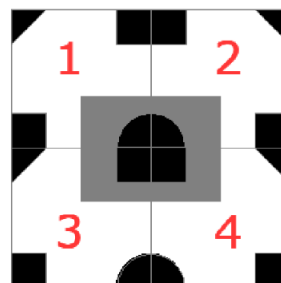
- 32 The appearance of the figure in option A is the front view.  
 The appearance of the figure in option B is not a possible view as it cannot be seen on any side of the glass box.  
 The appearance of the figure in option C is the right-side view.  
 The appearance of the figure in option D is the left-side view.

**Option B is the correct answer.**



- 33 Each quadrant is composed of four shapes: two squares, one triangle, and one quarter-circle.
- In quadrants 1 and 2, the missing shapes are quarter-circles.
- In quadrants 3 and 4, the missing shapes are squares.

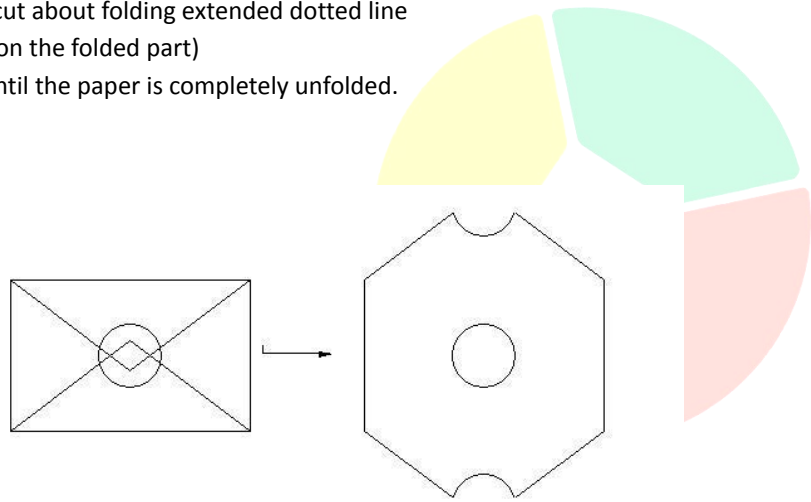
**Option C is the correct answer.**



34

- Start unfolding from the figure (Z).
- At each unfold, mirror the cut about folding extended dotted line (if the cut has its presence on the folded part)
- Repeat the previous step until the paper is completely unfolded.

**Option A is the correct answer.**

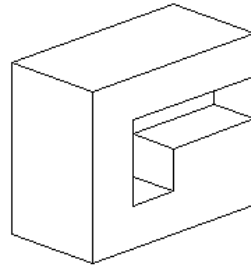


35

By combining the sample figure and the figure in option B, a perfect cube will be formed.

**Option B is the correct answer.**

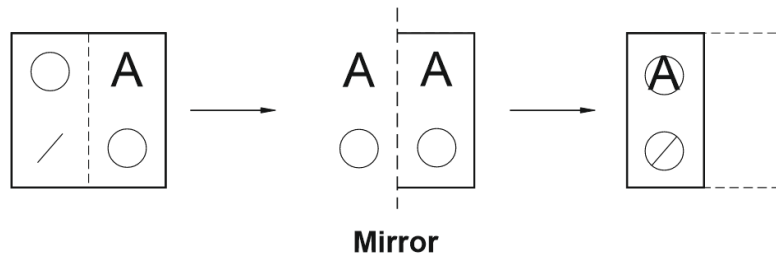
B



36

- Paper is folded from Right to Left about the dotted line.
- Consider a mirror in the dotted line.
- Visualize the mirror image of only the right part.
- Superimpose the mirror image of the right part on the left part.

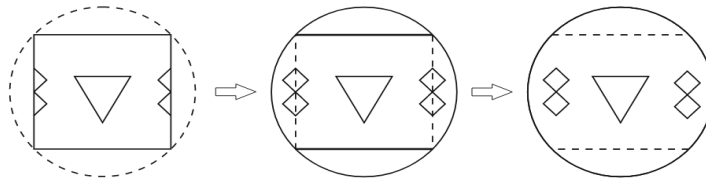
**Option D is the correct answer.**



37

- Start unfolding from the figure (Z).
- At each unfold, mirror the cut about the folding line (if the cut has its presence on the folded part)
- Repeat the previous step until the paper is completely unfolded.

**Option B is the correct answer.**



38

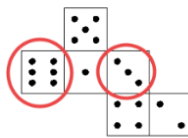
In options A and B, the opposite sides are 6 and 3. When added together, the result is 9.  
= It is not a normal dice.

In option C, the opposite sides are 6 and 1. When added together, the result is 7.  
= It is a normal dice.

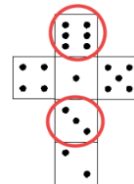
In option D, the opposite sides are 6 and 4. When added together, the result is 10.  
= It is not a normal dice.

**Option C is the correct answer.**

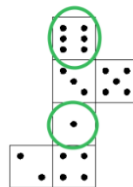
A



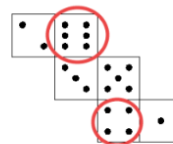
B



C

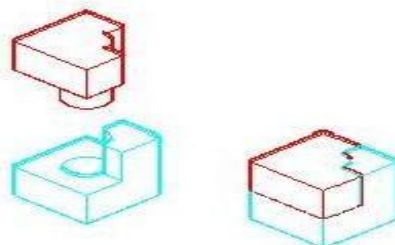


D



39

When the figure in option A is combined with the sample figure, it makes a complete cube. **Option A is the correct answer.**



- Start unfolding from the figure (Z).
- At each unfold, mirror the cut about the folding line (if the cut has its presence on the folded part)
- Repeat the previous step until the paper is completely unfolded.

**Option D is the correct answer.**

