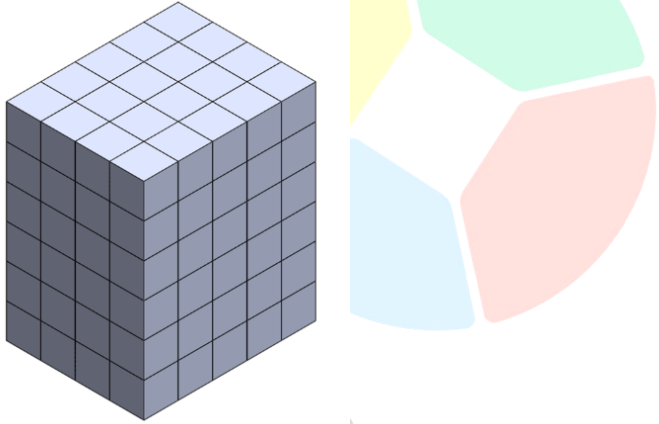
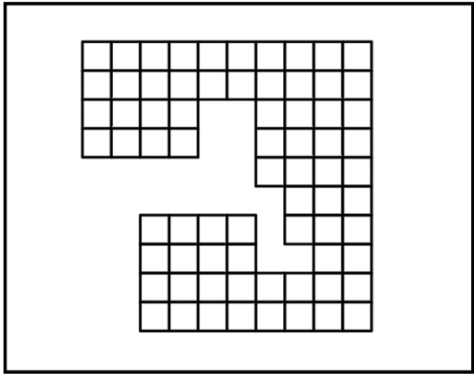
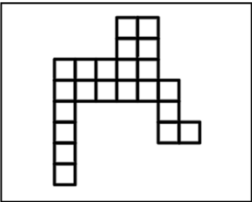
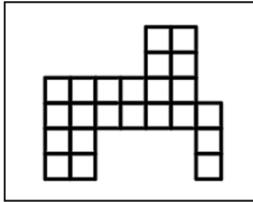
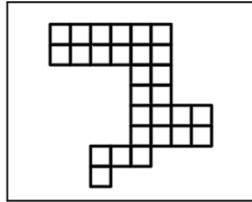
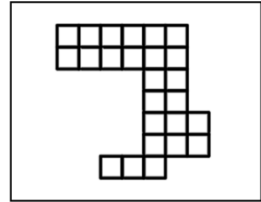
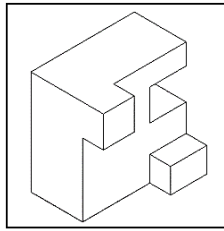


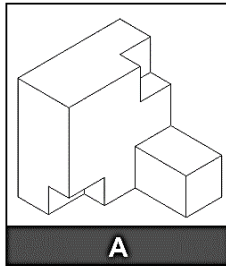
NO.	ANSWER
1	<p data-bbox="196 268 1511 338">A box is made from 120 cubes fitted tightly together in the arrangement below. The cube is fully immersed in quick-drying paint. All the exposed faces become covered in paint, but the inner ones remain unpainted.</p> <div data-bbox="743 352 1398 772">  </div> <p data-bbox="196 804 730 835">How many cubes remain completely unpainted?</p> <div data-bbox="290 877 371 1020"> <p>A. 16</p> <p>B. 22</p> <p>C. 24</p> <p>D. 36</p> </div>
2	<p data-bbox="196 1058 358 1089">Fill in the gaps.</p> <div data-bbox="672 1100 1143 1472">  </div> <div data-bbox="315 1535 1403 1766"> <div data-bbox="315 1535 581 1766"> <p>A.</p>  </div> <div data-bbox="602 1535 852 1766"> <p>B.</p>  </div> <div data-bbox="873 1535 1123 1766"> <p>C.</p>  </div> <div data-bbox="1144 1535 1403 1766"> <p>D.</p>  </div> </div>

3

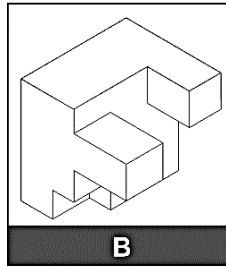
A piece of puzzle is shown below:



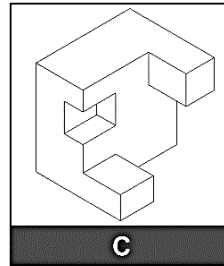
Which one of the following pieces will fit the piece above to make a complete cube?



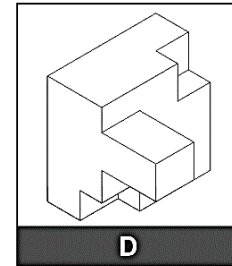
A



B



C

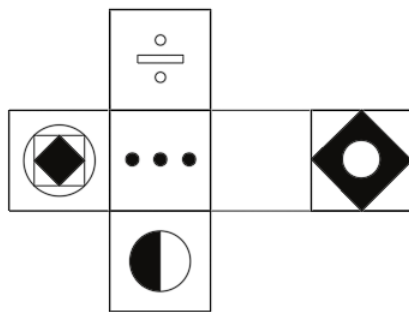


D

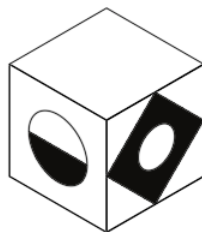
4

A cube will be formed using the cut-out below.

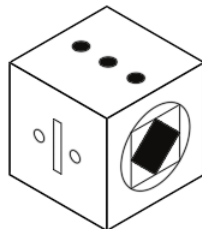
Which one of the following cubes was not formed from this cut-out?



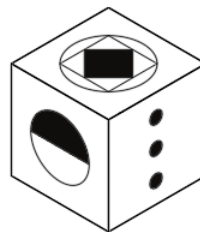
A.



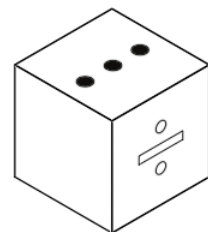
B.



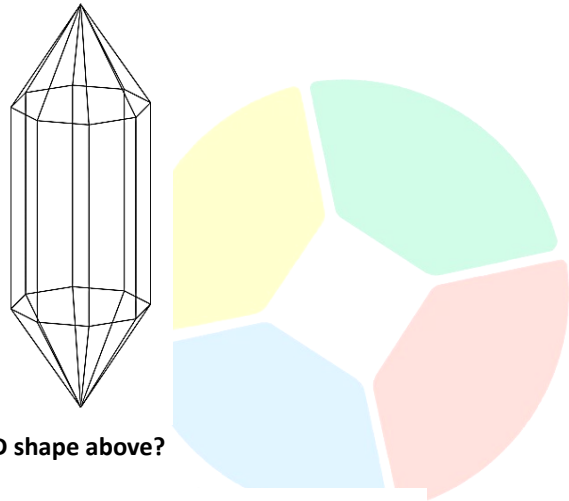
C.



D.

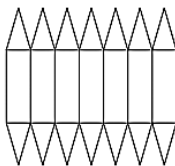


5

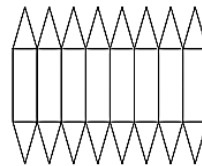


Which of the following figures, when folded, forms the 3D shape above?

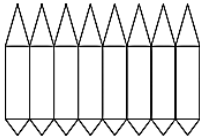
A.



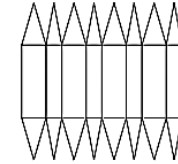
B.



C.

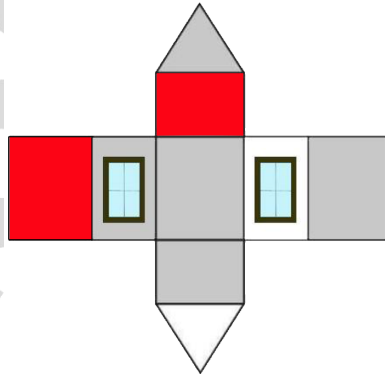


D.



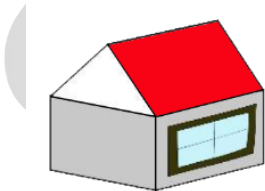
6

The piece of cardboard shown below folds to form a house for use with a model railway. The other side of the cardboard is black, which forms the inside of the house.

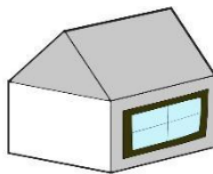


Which of the illustrations below correctly shows the assembled house?

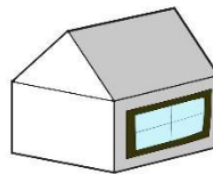
A



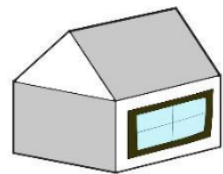
B



C

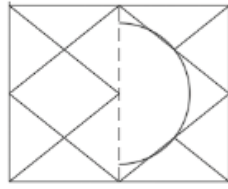


D

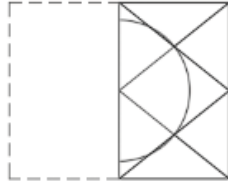


7

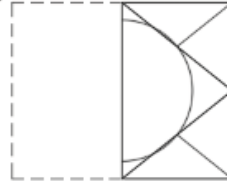
Find out from amongst the four alternatives how the pattern would appear when the transparent sheet is folded at the dotted line.



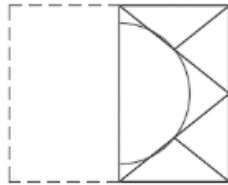
A.



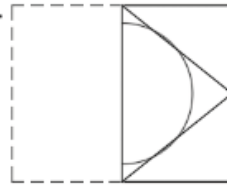
C.



B.



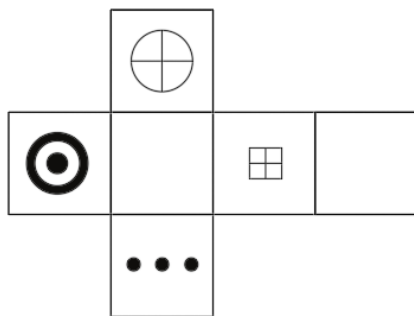
D.



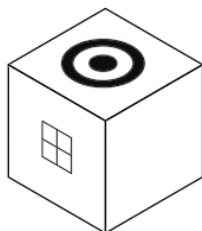
8

A cube will be formed using the cut-out below.

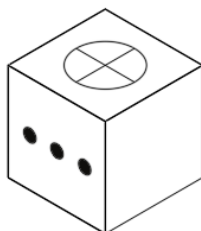
Which one of the following cubes was formed from this cut-out?



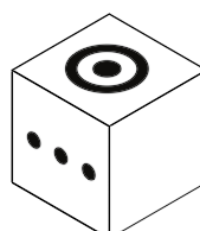
A.



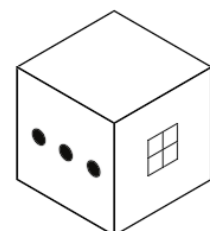
B.



C.

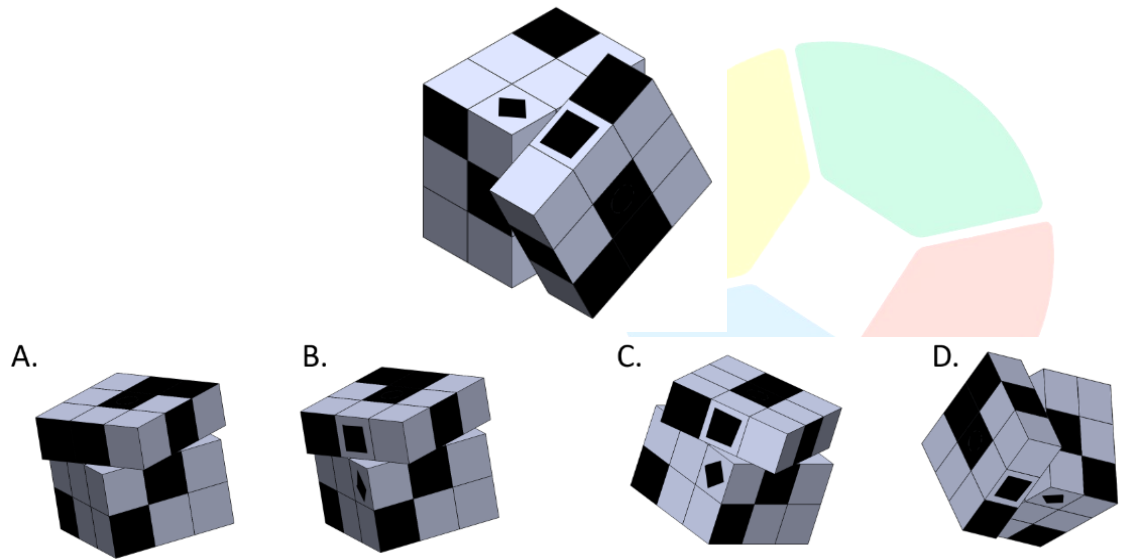


D.



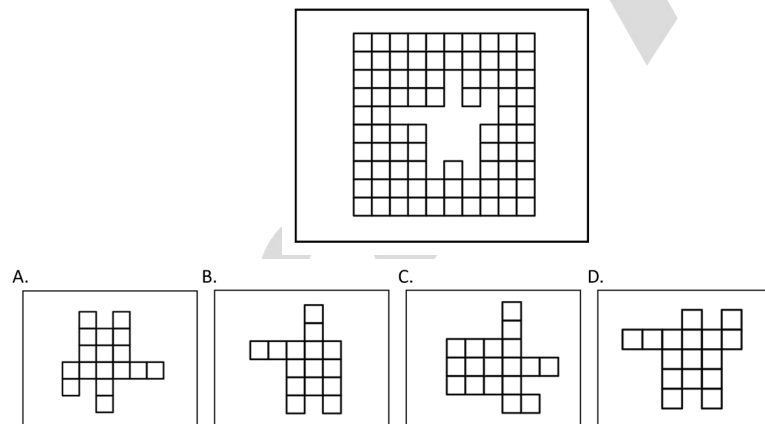
9

Which figure is the rotation of the object?



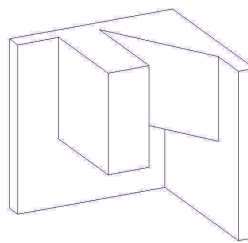
10

Fill in the gaps:

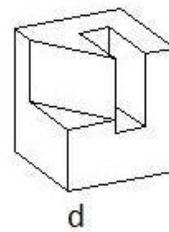
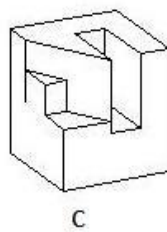
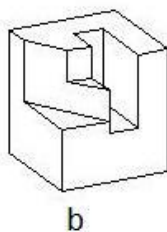
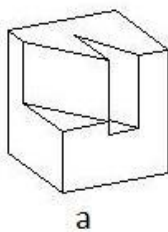


11

A piece of a puzzle is shown below.

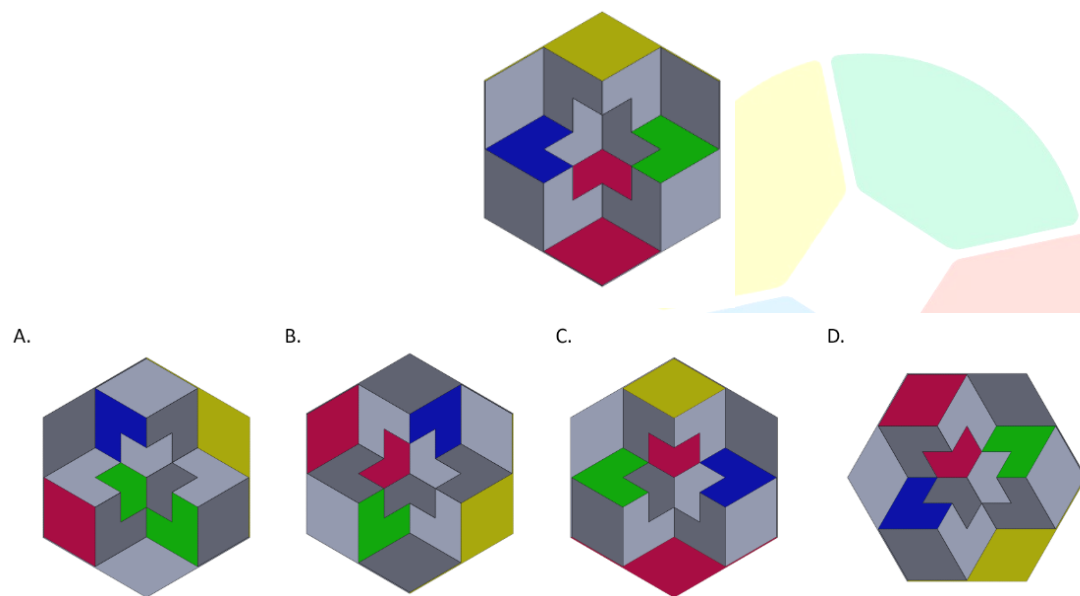


Which one of the following pieces will fit with the piece above to make a complete cube?



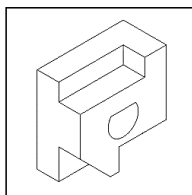
12

Which figure is the rotation of the object?

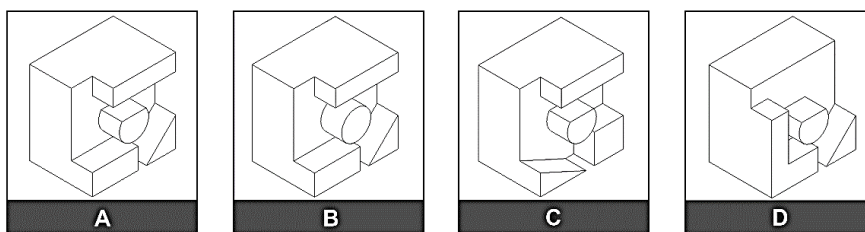


13

A piece of puzzle is shown below:

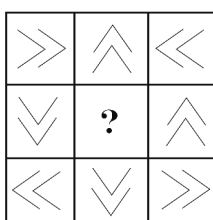


Which one of the following pieces will fit the piece above to make a complete cube?



14

Fill in the missing place



A



B



C



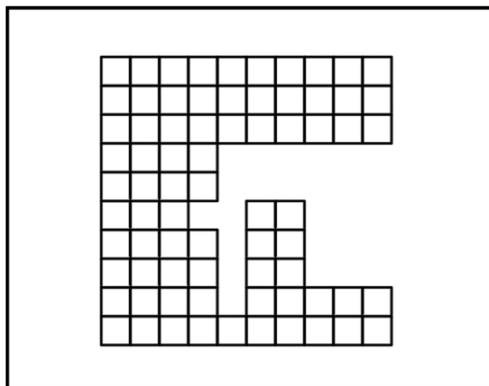
D



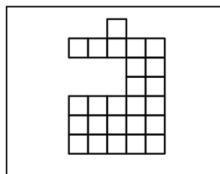
E

15

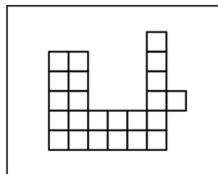
Fill in the gaps:



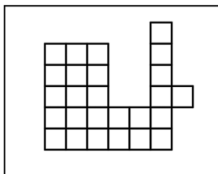
A.



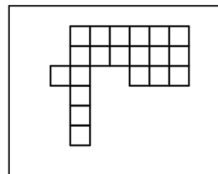
B.



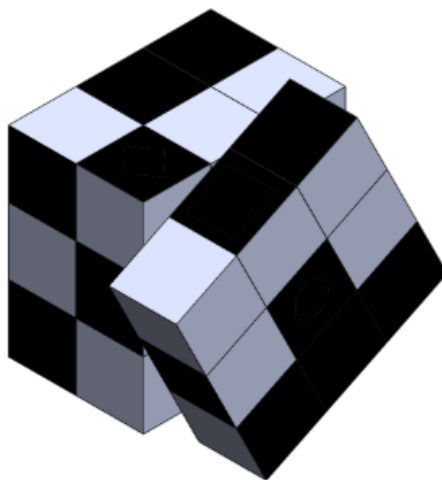
C.



D.

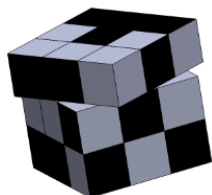


16

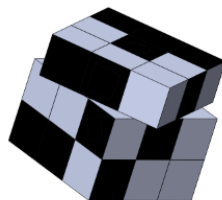


Which figure is the rotation of the object?

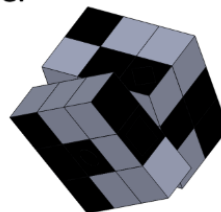
A.



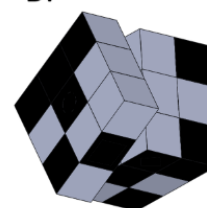
B.



C.

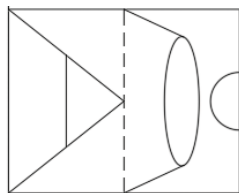


D.

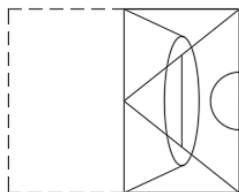


17

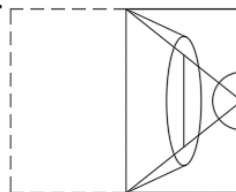
Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



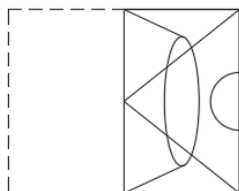
A.



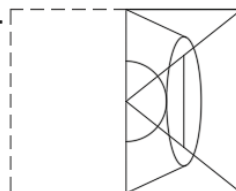
C.



B.



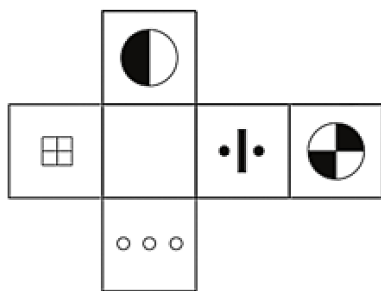
D.



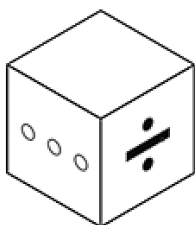
18

A net with different sides is shown below.

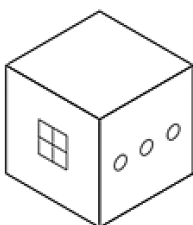
If the net was folded into a cube, which of the following would **not** be a possible output?



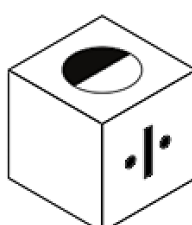
A.



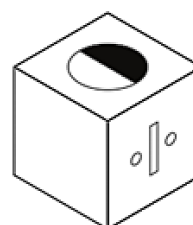
B.



C.

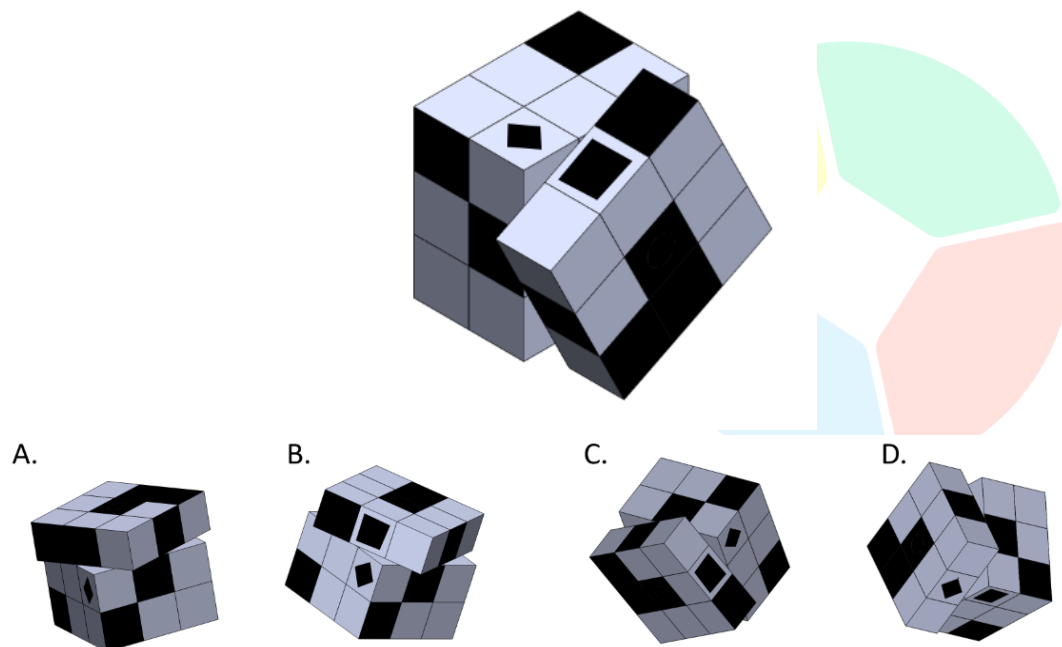


D.



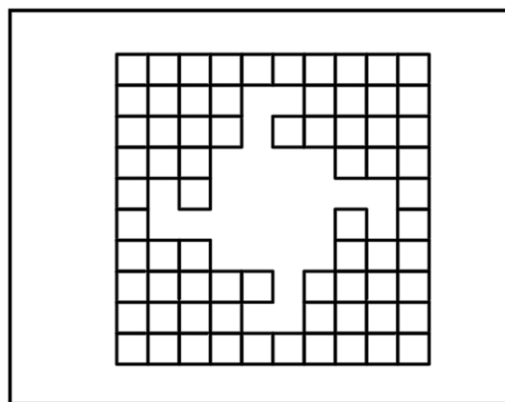
19

Which figure is the rotation of the object?

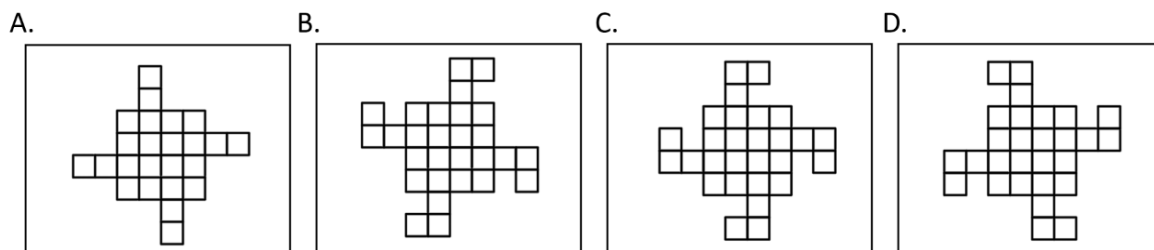


20

The figure below shows an incomplete pattern:

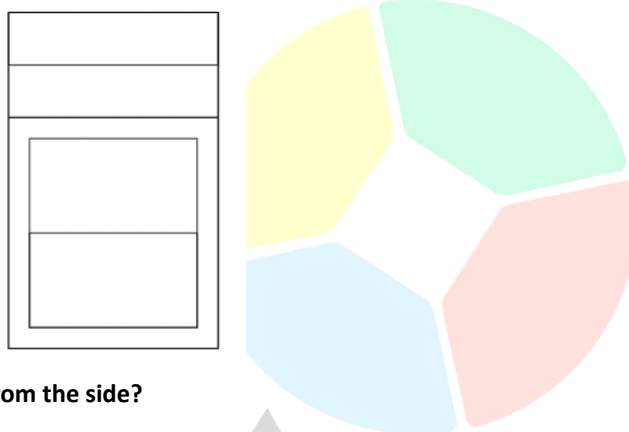


Which among the following figures fills in the gaps?

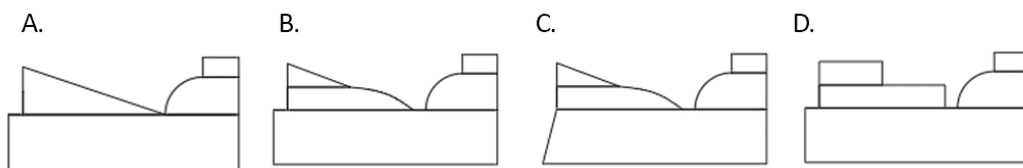


21

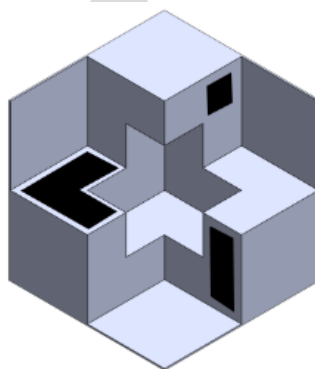
When viewed from above, an object looks like the picture shown below.



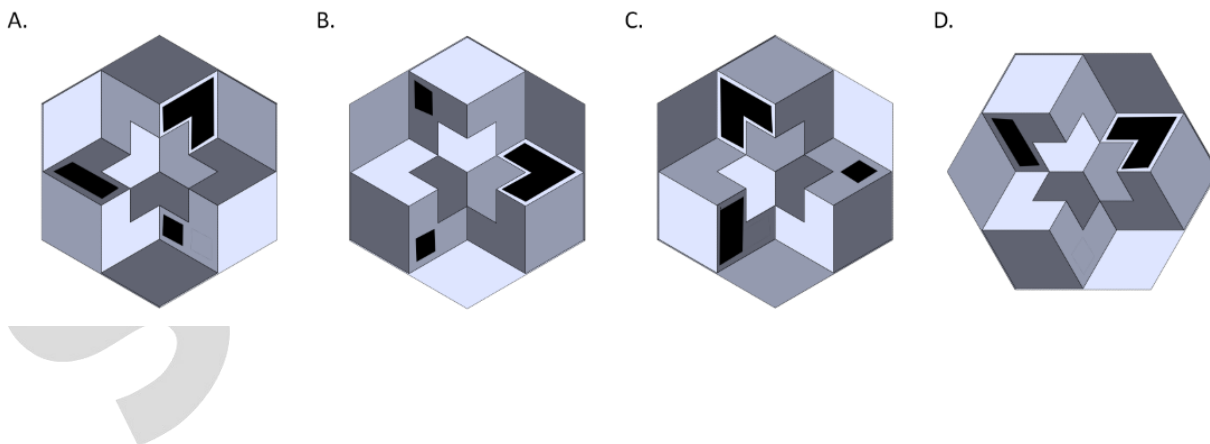
Which one of the following is not a possible view from the side?



22

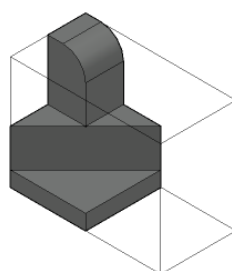


Which figure is the rotation of the object?



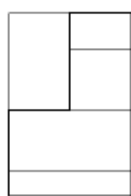
23

A sculpture is placed in a glass box and displayed in a museum, as shown in the diagram below. The sculpture can be viewed from all sides.

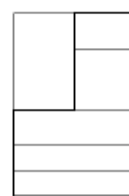


Which one of the following is not a possible view from one of the sides of the glass box?

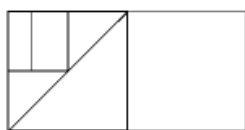
A.



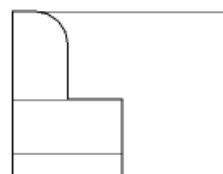
B.



C.

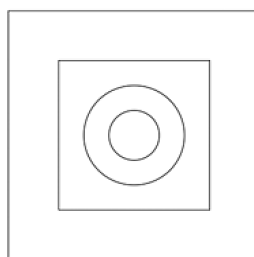


D.



24

When viewed from above, an object looks like the picture shown below.

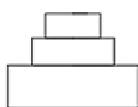


Which one of the following is a possible view from the side?

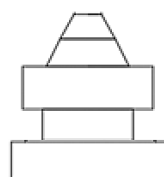
A.



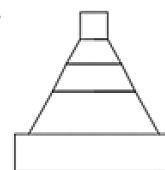
B.



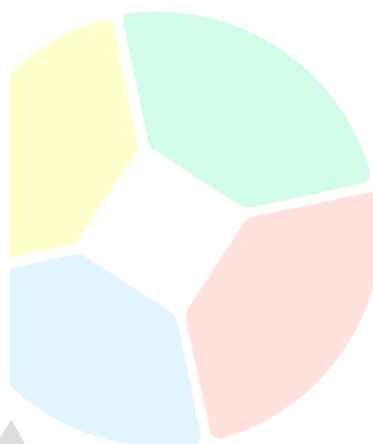
C.



D.

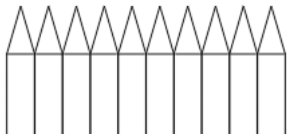


25

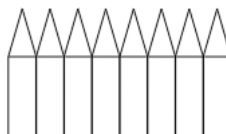


If the given figure was unfolded, what would its appearance look like?

A.



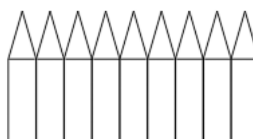
B.



C.

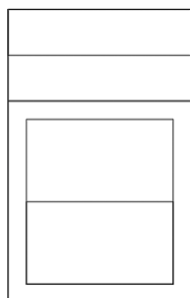


D.



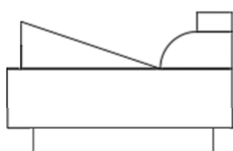
26

When viewed from the side, an object looks like the picture shown below.

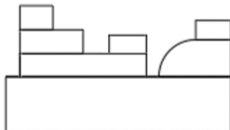


Which one of the following is a possible view from the top?

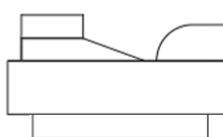
A.



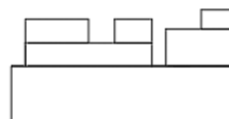
B.



C.



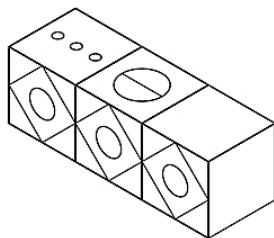
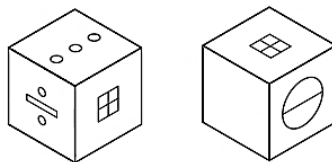
D.



27

Below are two identical boxes. Also, below is a picture of three of these boxes placed in a line.

What are the shapes on the end faces, face 1 and face 2?



A.



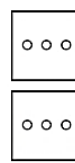
B.



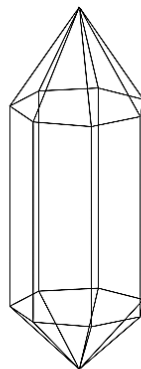
C.



D.

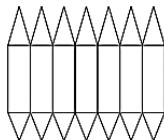


28

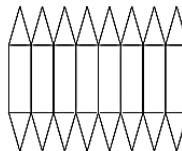


If the given figure was unfolded, what would its appearance look like?

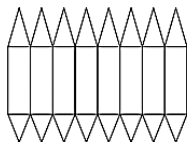
A.



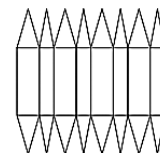
B.



C.

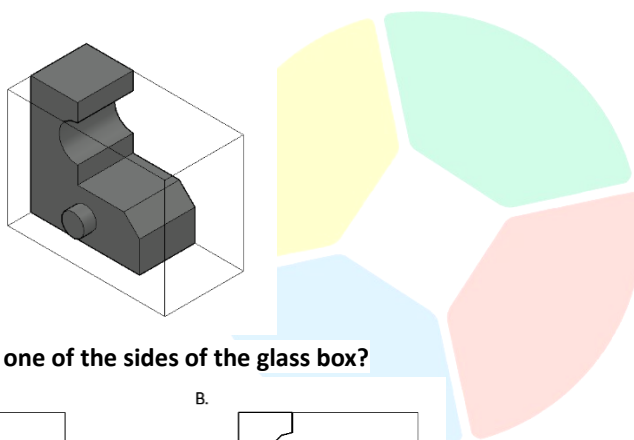


D.

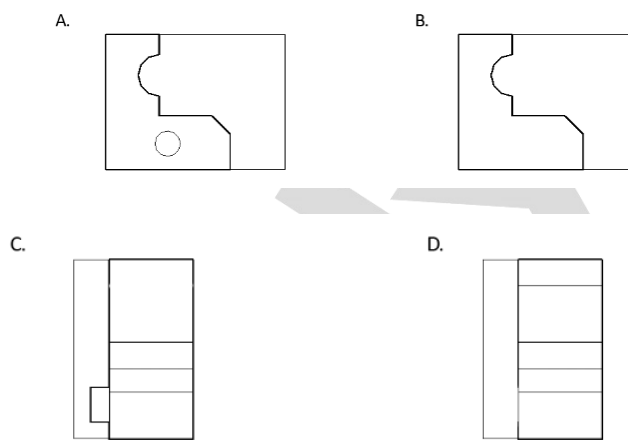


29

A sculpture is placed in a glass box and displayed in a museum as shown in the diagram below. The sculpture can be viewed from all sides.

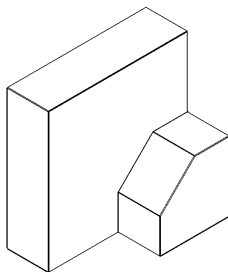


Which one of the following is a possible view from one of the sides of the glass box?

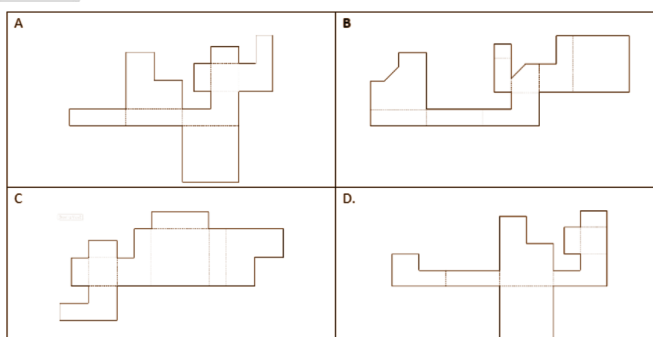


30

Please refer to the following object as shown below.



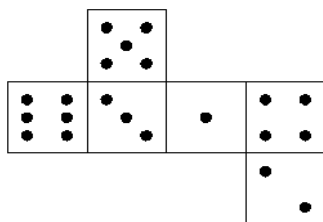
Which of the nets below CAN be folded up to form the object as shown above?



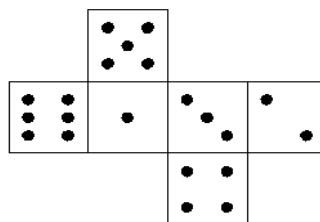
On a normal dice the numbers on each pair of opposite sides add up to 7.

Which of the following nets shown below is the only one which make a normal dice when folded?

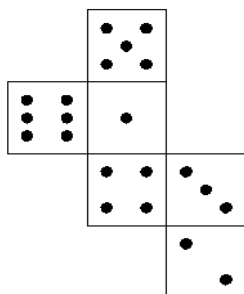
A



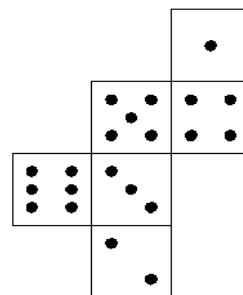
B



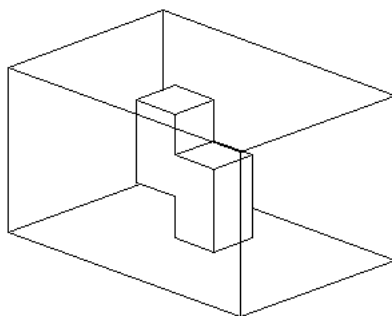
C



D



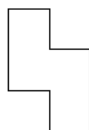
A sculpture is placed in a glass box and displayed in a museum as shown in the diagram below.



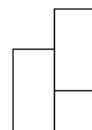
The sculpture can be viewed from all sides.

Which one of the following is **not** a possible view from one of the sides of the glass box?

A



B



C

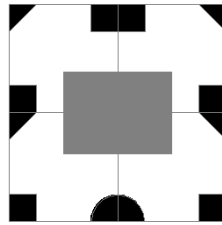


D



33

I have used 4 identical tiles to make a pattern on the floor. There is a grey rectangle on top of the tiles so that only part of the pattern is visible.



Using the same orientation as the diagram above, what is the pattern that is covered by the grey rectangle?

A



B



C

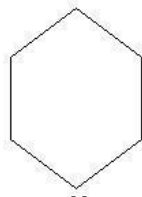


D

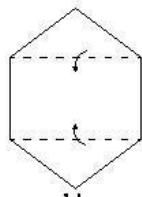


34

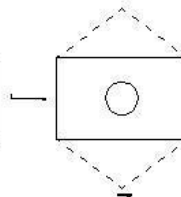
Choose a figure which would most closely resemble the unfolded form of figure (Z)



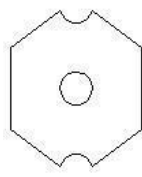
x



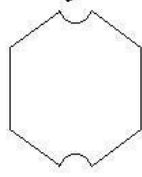
y



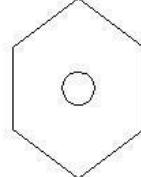
z



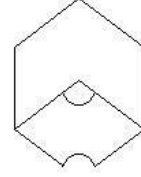
a



b

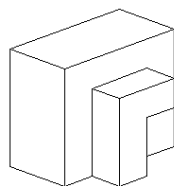


c



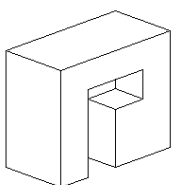
d

A piece of a puzzle is shown below.

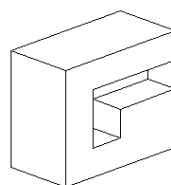


Which one of the following pieces will fit with the piece above to make a complete cube?

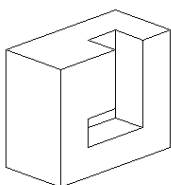
A



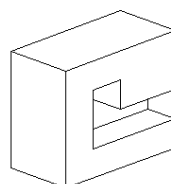
B



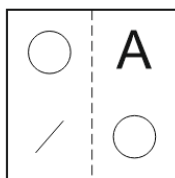
C



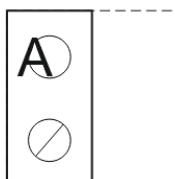
D



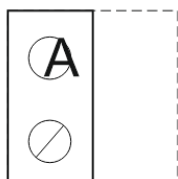
Find out amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



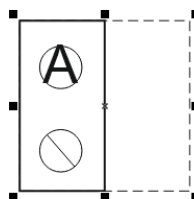
(X)



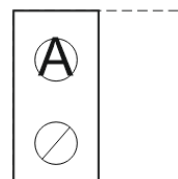
A



B



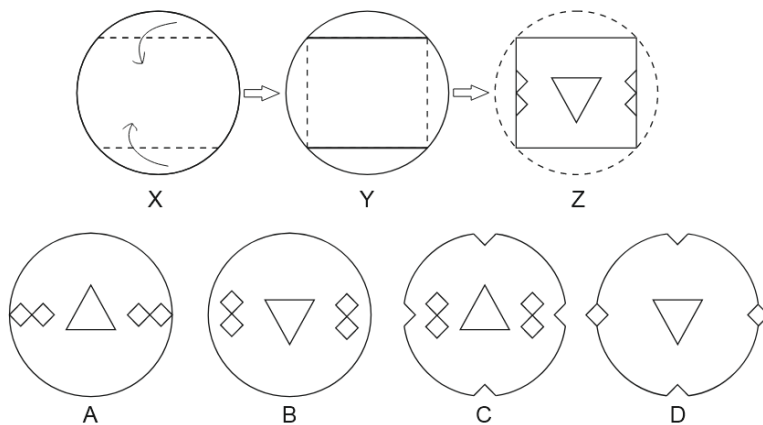
C



D

37

Choose a figure which would most closely resemble the unfolded form of figure (Z)

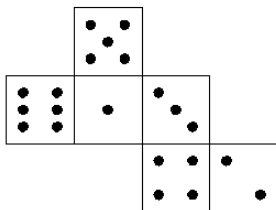


38

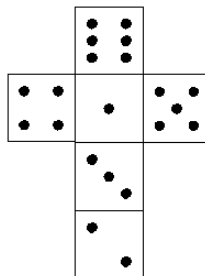
On a normal dice the numbers on each pair of opposite sides add up to 7.

Which of the following nets shown below is the only one which make a normal dice when folded?

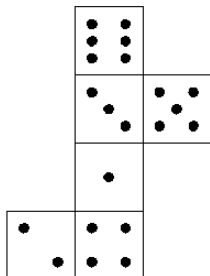
A



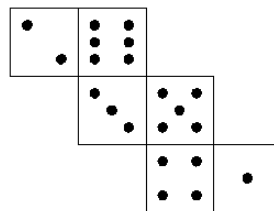
B



C

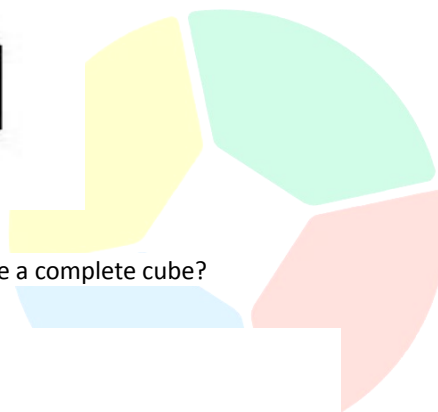
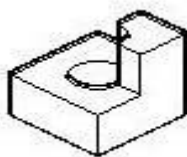


D

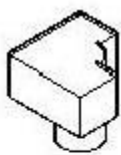


39

A piece of a puzzle is shown below.



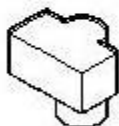
Which one of the following pieces will fit with the piece above to make a complete cube?



a



b



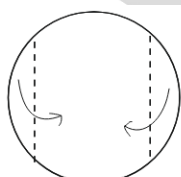
c



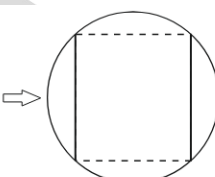
d

40

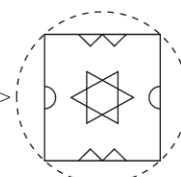
Choose a figure which would most closely resemble the unfolded form of figure (Z)



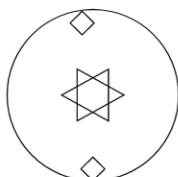
X



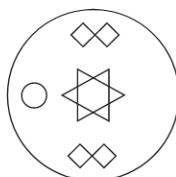
Y



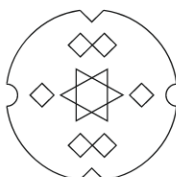
Z



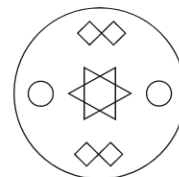
A



B



C



D