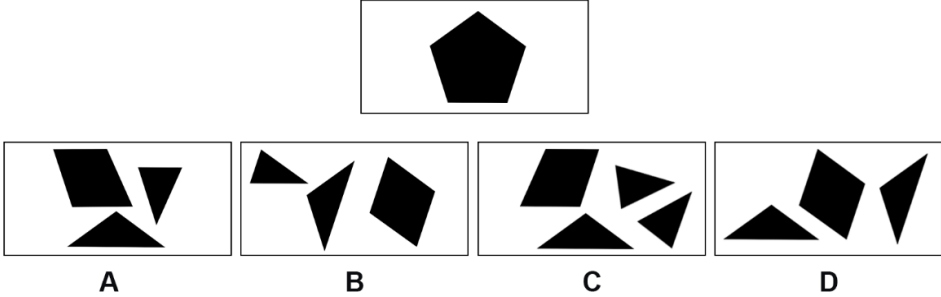
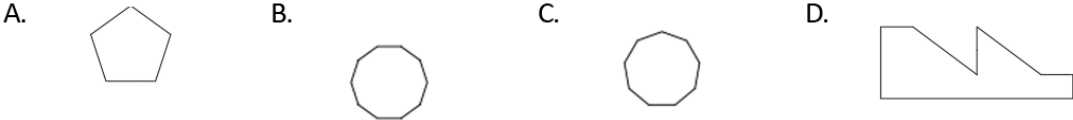
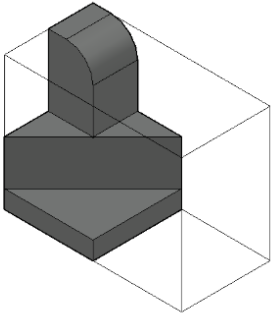
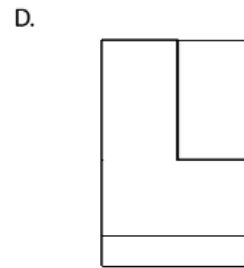
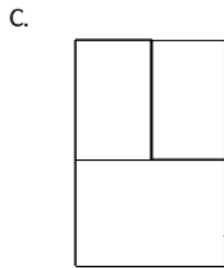
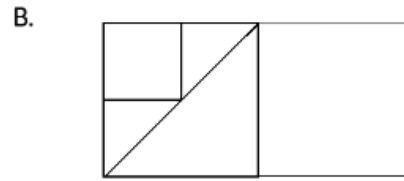
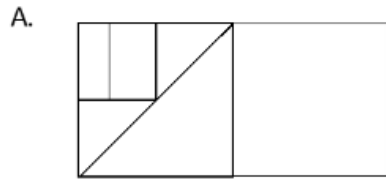
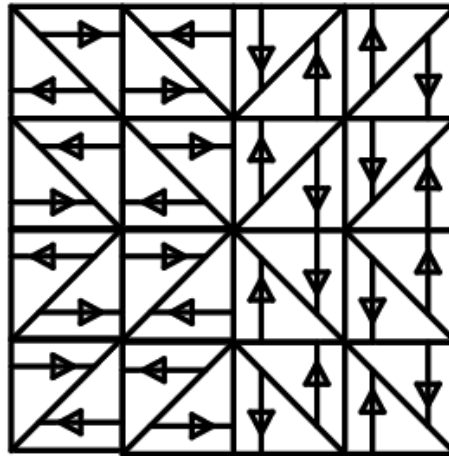


NO.	QUESTION
1	<p data-bbox="358 317 1239 352">Which component shapes can be made from the component parts?</p> <div data-bbox="328 380 1263 674" style="text-align: center;">  </div>
2	<p data-bbox="251 747 1520 827">Mino wants to tile his kitchen floor and is trying to decide between his four favourite tiles. However, only one of them is suitable for the job as three of them won't cover the floor without leaving numerous gaps.</p> <p data-bbox="251 865 623 896">Which one is suitable for the job?</p> <div data-bbox="277 1031 1344 1150" style="text-align: center;">  </div>
3	<p data-bbox="251 1260 1498 1337">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.</p> <div data-bbox="760 1419 1029 1730" style="text-align: center;">  </div> <p data-bbox="251 1791 1180 1822">Which one of the following is a possible view from one of the sides of the glass box?</p>



4



How many unique square tiles are required to create the pattern below? (Tiles can be rotated)

- A. 2
- B. 3
- C. 4
- D. 5

5

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?

Face 1
Face 2

A.

B.

C.

D.

6

If the paper figure gets unfolded, which of the following would be its appearance?

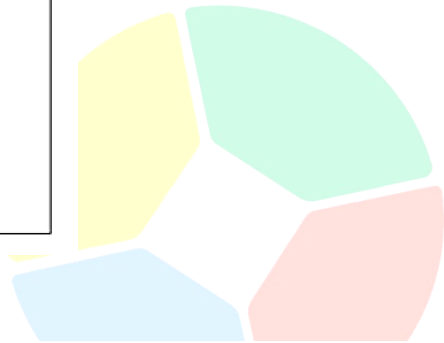
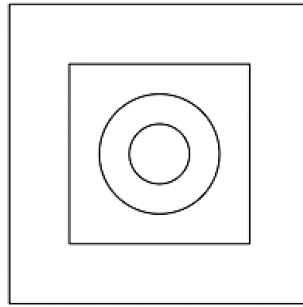
A.

B.

C.

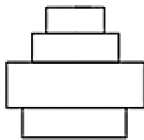
D.

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

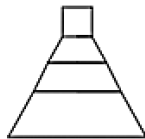


Which one of the following is a possible view from the side?

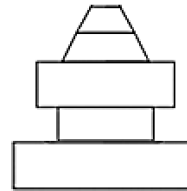
A.



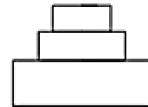
B.



C.

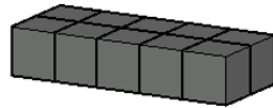


D.

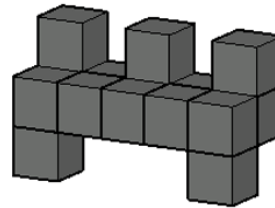


8

An adhesive substance needs to be placed on each face involved to put this solid P together. Doing labour on each face to make sure they stick took 39 seconds overall.



P

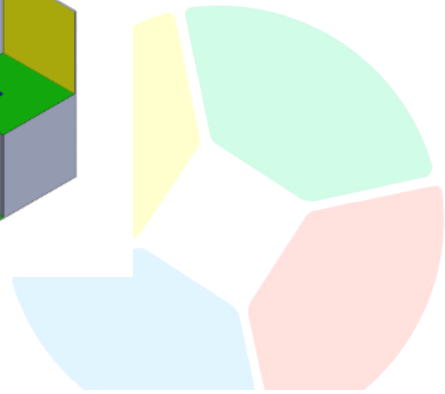
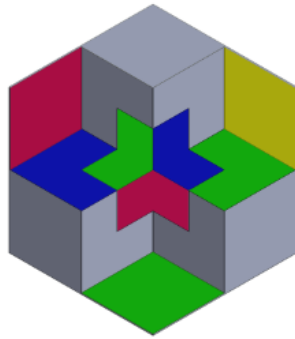


S

Working at the same rate, choose the length of time needed to put solid S together.

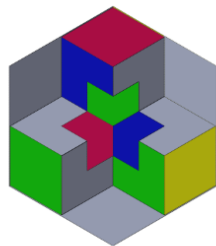
- A. 54 seconds
- B. 56 seconds
- C. 57 seconds
- D. 58 seconds

9

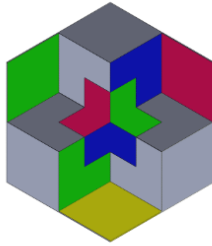


Which figure is not the rotation of the object?

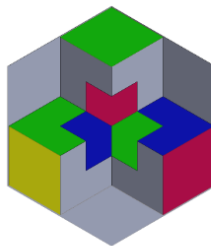
A.



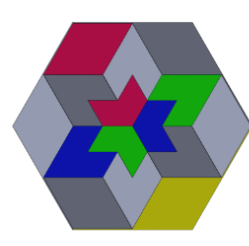
B.



C.

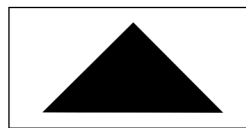


D.



10

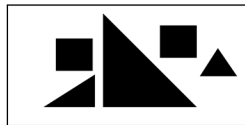
Which component shapes can be made from the component parts?



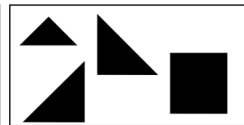
A



B

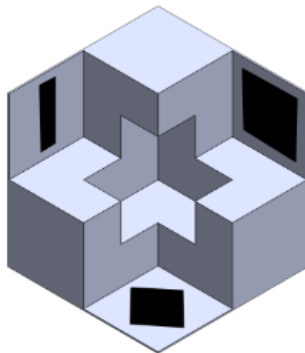


C



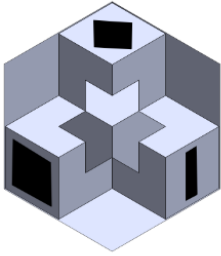
D

11

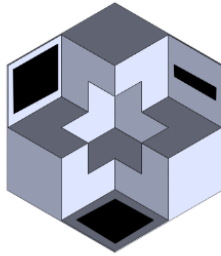


Which figure is not the rotation of the object?

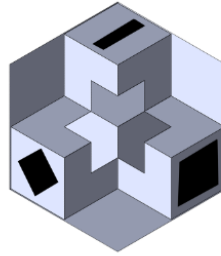
A.



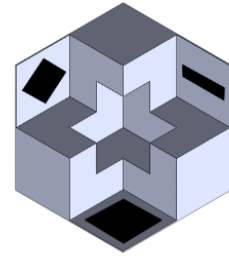
B.



C.

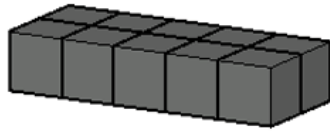


D.

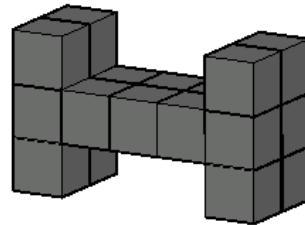


12

An adhesive substance needs to be placed on each face involved to put this solid P together. Doing labour on each face to make sure they stick took 39 seconds overall.



P



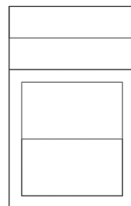
S

Working at the same rate, choose the length of time needed to put solid S together.

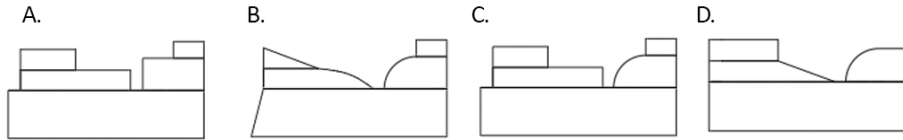
- A. 70 seconds
- B. 72 seconds
- C. 74 seconds
- D. 75 seconds

13

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

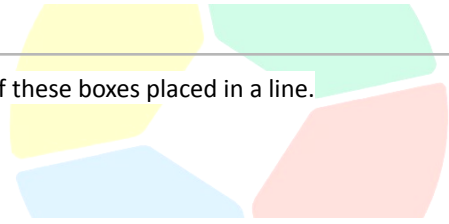


Which one of the following is not a possible view from the side?

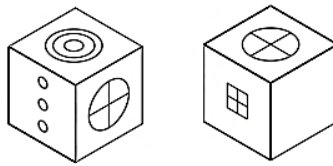


14

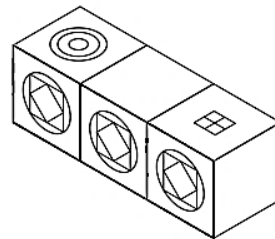
Below are two identical boxes. Also, below is a picture of three of these boxes placed in a line.



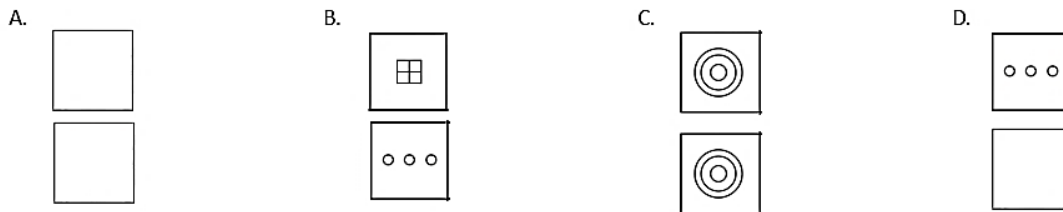
What are the shapes on end faces, face 1 and face 2?



Face 1



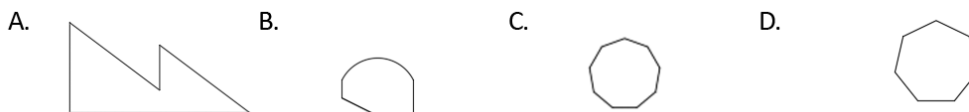
Face 2



15

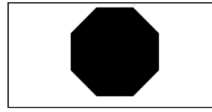
Ying wants to tile his kitchen floor and is trying to decide between his four favourite tiles. However, only one of them is suitable for the job as three of them won't cover the floor without leaving numerous gaps.

Which one is suitable for the job?



16

Which component shapes can be made from the component parts?



A



B

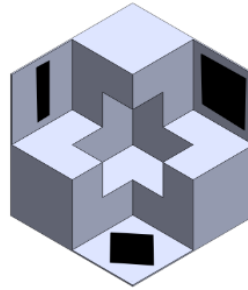


C



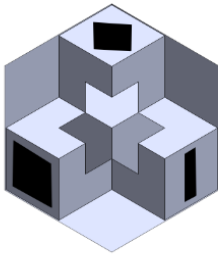
D

17

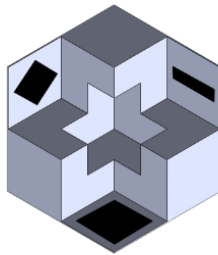


Which figure is not the rotation of the object?

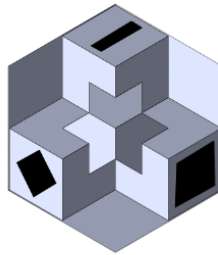
A.



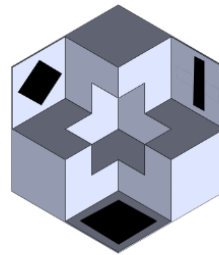
B.



C.



D.

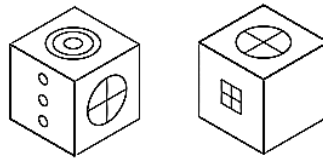


18

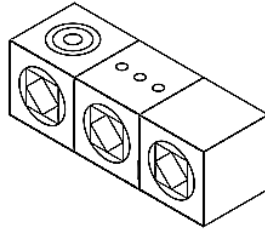
Below are two identical boxes. Also, below is a picture of three of these boxes placed in a line.

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

Scanned with



Face 1



Face 2

A.



B.



C.

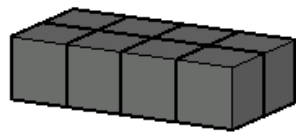


D.

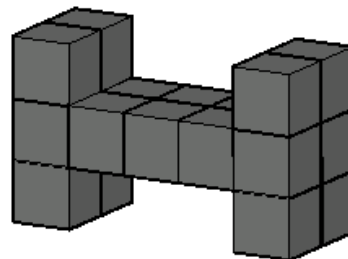


19

An adhesive substance needs to be placed on each face involved to put this solid **P** together. Doing labour on each face to make sure they stick took 30 seconds overall.



P



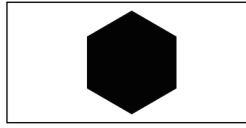
S

Working at the same rate, choose the length of time needed to put solid **S** together.

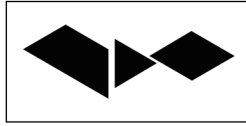
- A. 70 seconds
- B. 72 seconds
- C. 74 seconds
- D. 75 seconds

20

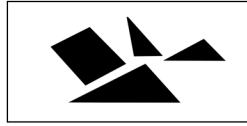
Which component shapes can be made from the component parts?



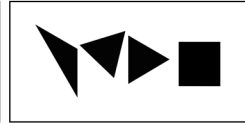
A



B

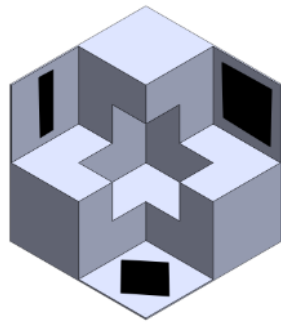


C



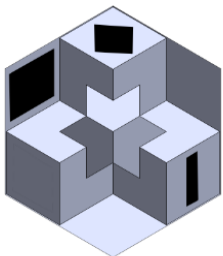
D

21

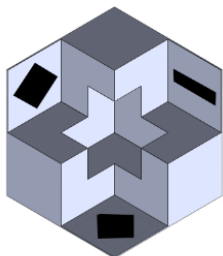


Which figure is the rotation of the object?

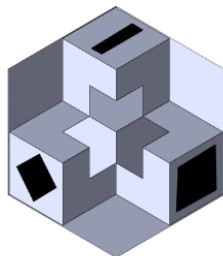
A.



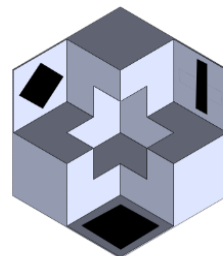
B.



C.

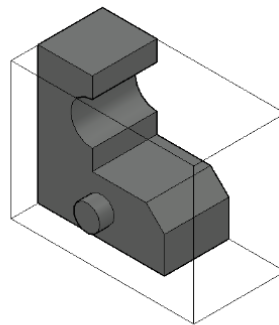


D.



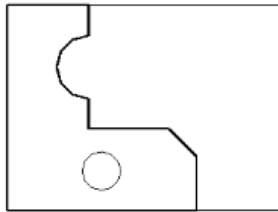
22

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.

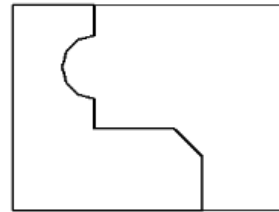


Which one of the following is a possible view from one of the sides of the glass box?

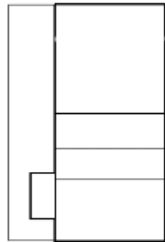
A.



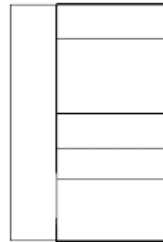
B.



C.



D.



23

Ying wants to tile his kitchen floor and is trying to decide between his four favourite tiles. However, only one of them is suitable for the job as three of them won't cover the floor without leaving numerous gaps.

Which one is suitable for the job?

A.



B.



C.



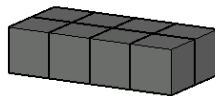
D.



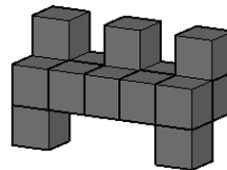
24

An adhesive substance needs to be placed on each face involved to put this solid **P** together. Doing labour on each face to make sure they stick took 30 seconds overall.

Working at the same rate, choose the length of time needed to put solid **S** together.

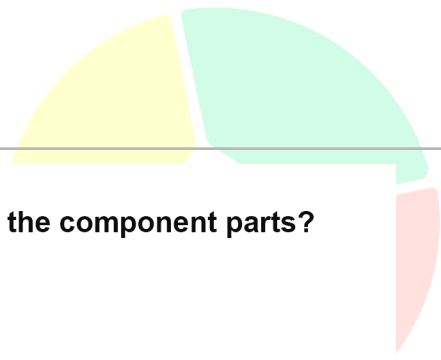


P



S

- A. 54 seconds
- B. 56 seconds
- C. 57 seconds
- D. 58 seconds

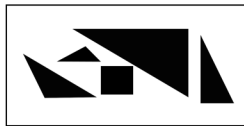


25

Which component shapes can be made from the component parts?



A



B



C

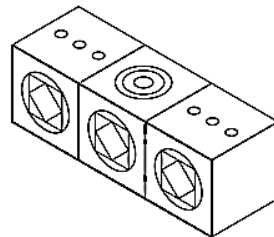
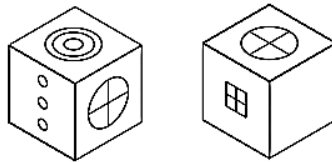


D

26

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

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



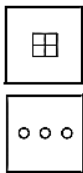
Face 1

Face 2

A.



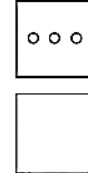
B.

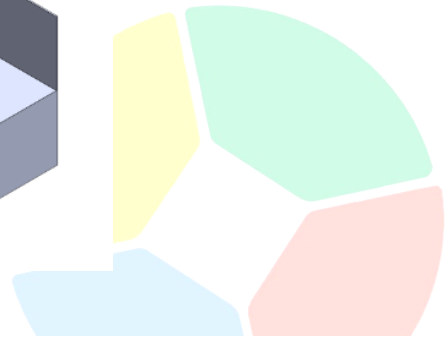
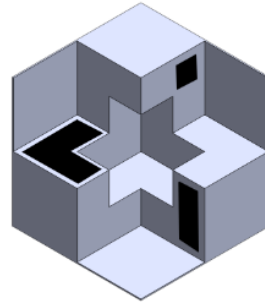


C.



D.



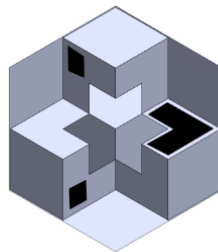


Which figure is not the rotation of the object?

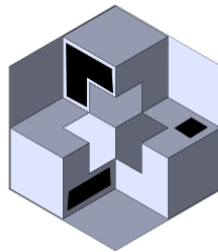
A.



B.



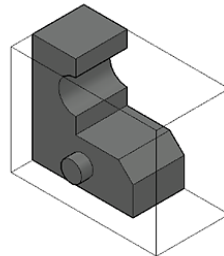
C.



D.

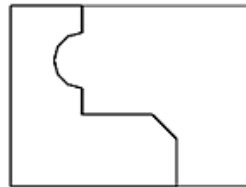


A sculpture is placed in a glass box and displayed in a museum as shown in the diagram below. The sculpture can be viewed from all sides.

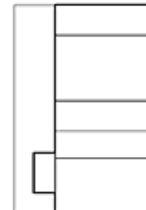


Which one of the following is a possible view from one of the sides of the glass box?

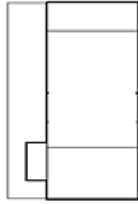
A.



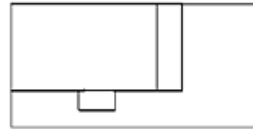
B.



C.

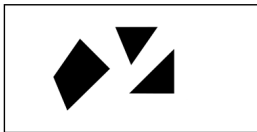
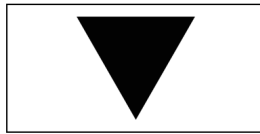


D.

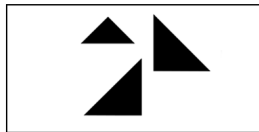


29

Which component shapes can be made from the component parts?



A



B



C

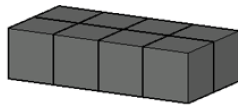


D

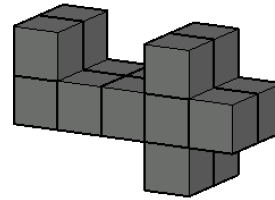
30

An adhesive substance needs to be placed on each face involved to put this solid P together. Doing labour on each face to make sure they stick took 20 seconds overall.

Working at the same rate, choose the length of time needed to put solid S together.



P



S

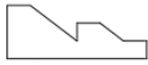
- A. 40 seconds
- B. 44 seconds
- C. 48 seconds
- D. 52 seconds

31

Ying wants to tile his kitchen floor and is trying to decide between his four favourite tiles. However, only one of them is suitable for the job as three of them won't cover the floor without leaving numerous gaps.

Which one is suitable for the job?

A.



B.



C.

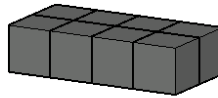


D.

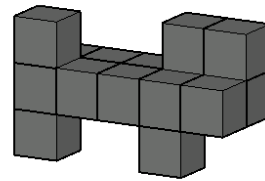


32

An adhesive substance needs to be placed on each face involved to put this solid **P** together. Doing labour on each face to make sure they stick took 30 seconds overall.



P



S

Working at the same rate, choose the length of time needed to put solid **S** together.

- A. 54 seconds
- B. 56 seconds
- C. 57 seconds
- D. 58 seconds

33

Which component shapes can be made from the component parts?



A



B

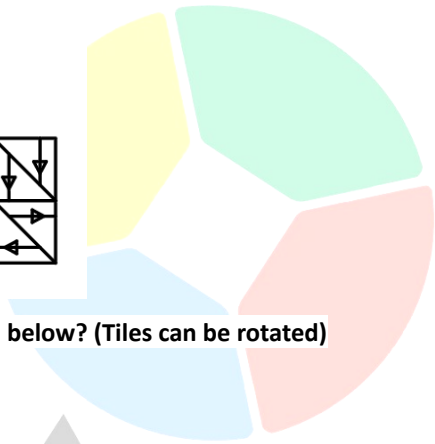
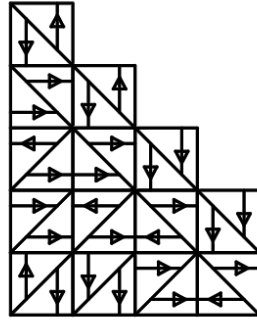


C



D

34

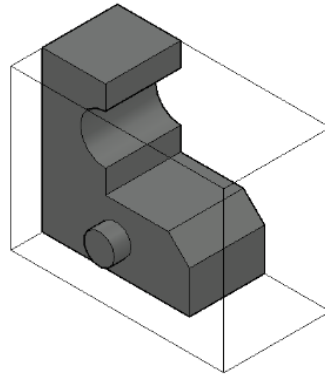


How many unique square tiles are required to create the pattern below? (Tiles can be rotated)

- A. 2
- B. 3
- C. 4
- D. 5

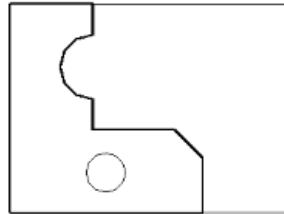
35

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.

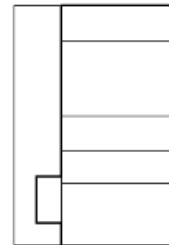


Which one of the following is not a possible view from one of the sides of the glass box?

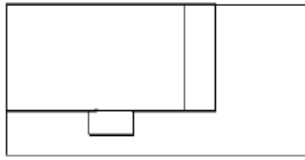
A.



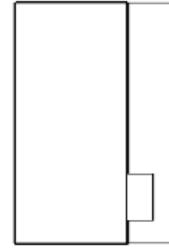
B.



C.



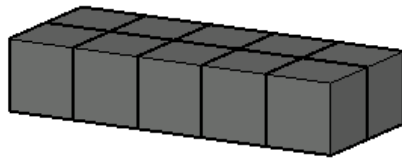
D.



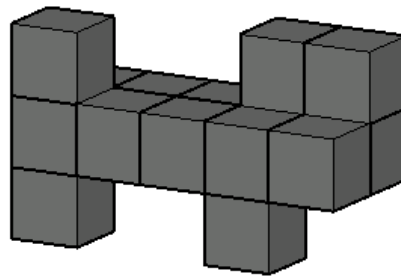
36

An adhesive substance needs to be placed on each face involved to put this solid **P** together. Doing labour on each face to make sure they stick took 52 seconds overall.

Working at the same rate, choose the length of time needed to put solid **S together.**



P

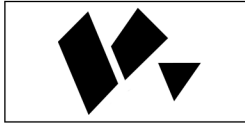
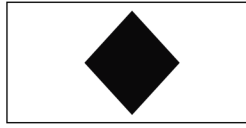


S

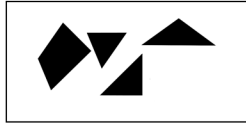
- A. 70 seconds
- B. 72 seconds
- C. 76 seconds
- D. 84 seconds

37

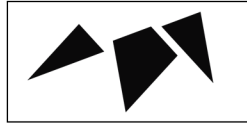
Which component shapes can be made from the component parts?



A



B



C



D

38

Ying wants to tile his kitchen floor and is trying to decide between his four favourite tiles. However, only one of them is suitable for the job as three of them won't cover the floor without leaving numerous gaps.

Which one is suitable for the job?

A.



B.



C.



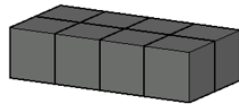
D.



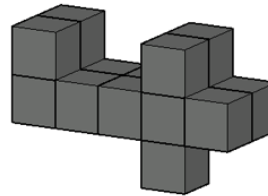
39

An adhesive substance needs to be placed on each face involved to put this solid P together. Doing labour on each face to make sure they stick took 20 seconds overall.

Working at the same rate, choose the length of time needed to put solid S together.



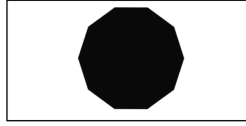
P



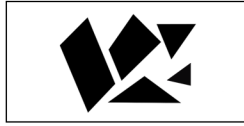
S

- A. 40 seconds
- B. 44 seconds
- C. 48 seconds
- D. 52 seconds

Which component shapes can be made from the component parts?



A



B



C



D

Scholarly