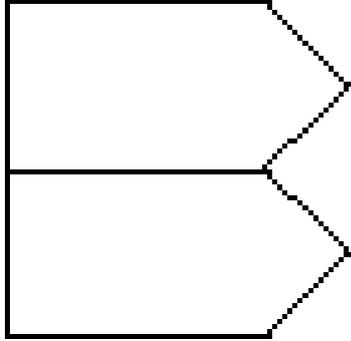
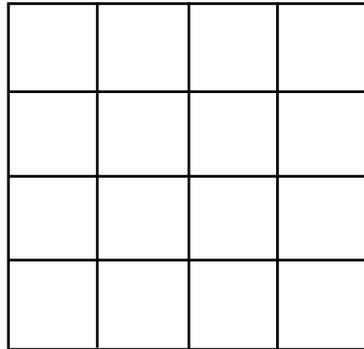


If this shape is two thirds of the pattern what could the whole pattern look like?



Split this shape in half. Can it be done in more than 5 ways?



If the perimeter of a pentagon is 50cm long, how long is each side?

1. How many more faces does a pentagonal prism have than a cuboid prism?

.....

2. How many cubes would you need to make one which is 4 cubes wide?

.....

3. What shapes would you need to make a 3D model of a triangular based pyramid?

.....

4. You have a square piece of paper. What is the least number of cuts you have to make to turn the square into a pentagon?

.....

5. Draw and name a 3D shape that has more than 4 faces.

.....

6. Draw five squares in the shape of a cross. How many lines of symmetry are there? Draw them on.

.....

7. What could the time be if the hands on an analogue clock show a right angle?

.....

8. How many different shaped rectangles can you make with 12 cubes?



Reasoning about numbers or shapes

How many more faces does a heptagonal prism have than a hexagonal prism?

1.

.....

2.

How many cubes do you need to make one that is 8 cubes wide?

.....

3.

What shapes would you need to make a 3D model of a square based pyramid?

.....

4.

You have a square piece of paper. What is the least number of cuts you have to make to turn the square into a hexagon?

.....

5.

Draw and name a 3D shape that has more than 6 faces.

.....

6.

Draw nine squares in the shape of a cross. How many lines of symmetry are there? Draw them on.

.....

7.

What could the time be if the hands on an analogue clock show a  $180^\circ$  angle?

.....

8.

How many different shaped rectangles can you make with 18 cubes?



1. How many more faces does an octagonal prism have than a hexagonal prism?

.....

2. How many cubes do you need to make a cube that is 10 cubes wide?

.....

3. Which shapes would you need to make a 3D model of a pentagonal based pyramid?

.....

4. You have a square piece of paper. What is the least number of cuts you have to make to turn the square into a octagon?

.....

5. Draw and name a 3D shape that has more than 7 faces.

.....

6. Draw 13 squares in the shape of a cross. How many lines of symmetry are there? Draw them on.

.....

7. What could the time be if the hands on an analogue clock show a  $60^\circ$  angle?

.....

8. How many different shaped rectangles can you make with 24 cubes?