

Chilli Challenge

Year 2 Geometry Maths Cards

Answers



Chilli Challenge

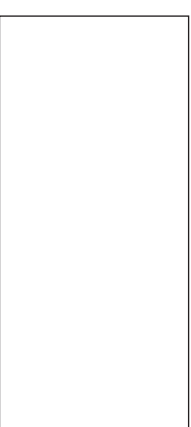
Nice and Spicy!



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides.

How many sides does this rectangle have?



4

twinkl.com

Chilli Challenge

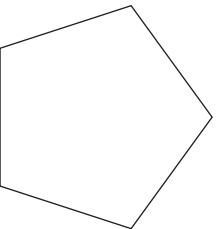
Nice and Spicy!



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides.

How many sides does this pentagon have?



5

twinkl.com

Chilli Challenge

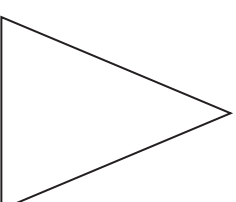
Nice and Spicy!



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides.

How many sides does this triangle have?



3

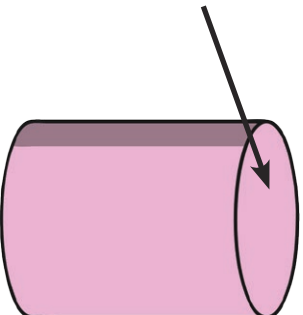
twinkl.com



2D Shape

Identify 2D shapes on the surface of 3D shapes.

Which 2D shape is on the surface of this 3D shape?



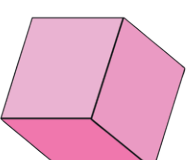
circle



3D Shape

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

How many edges, vertices and faces does a cube have?



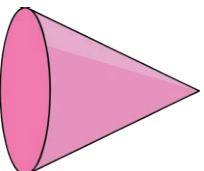
12 edges 8 vertices
6 faces



3D Shape

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

How many edges, vertices and faces does a cone have?



1 edge 0 vertices 2
faces

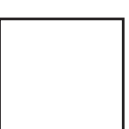


Sorting

Compare and sort common 2D and 3D shapes and everyday objects.

Sort shapes according to the number of faces, sides, vertices or edges.

Tick the shape with 4 sides.

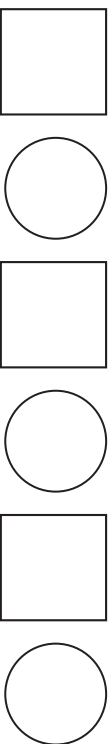
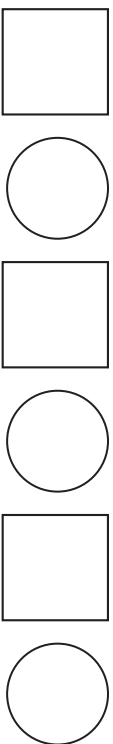




Position, Direction and Movement

Order and arrange combinations of mathematical objects in patterns and sequences.

Continue this sequence:



Position, Direction and Movement

Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

Give 3 or 4 instructions to a partner to move from one place to another using quarter and half turns.

Go forwards 4 steps. Move a quarter turn clockwise.

Children's own spoken answers



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides.

How many sides does a triangle have? 3

How many sides does an octagon have? 8

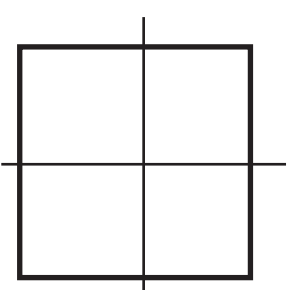
How many sides does a circle have? 1



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides.

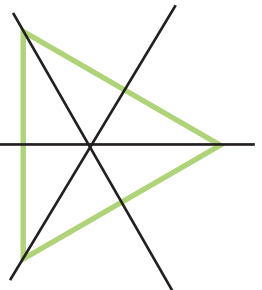
Draw a line of symmetry on this shape.



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides.

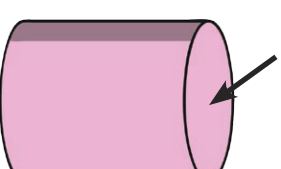
Draw a line of symmetry on this shape.



2D Shape

Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on a pyramid).

circle

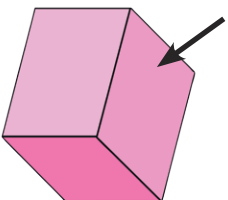




2D Shape

Identify 2D shapes on the surface of 3D shapes (for example, a circle on a cylinder and a triangle on a pyramid).

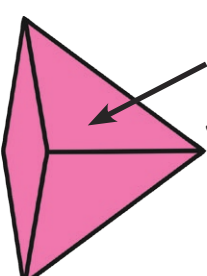
square



2D Shape

Identify 2D shapes on the surface of 3D shapes (for example, a circle on a cylinder and a triangle on a pyramid).

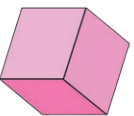
triangle and square



3D Shape

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

How many edges, vertices and faces does a cube have?



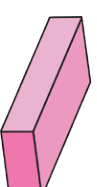
12 edges, 8 vertices, 6 faces



3D Shape

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

How many edges, vertices and faces does a cuboid have?



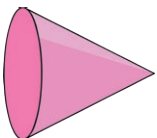
12 edges, 8 vertices, 6 faces



3D Shape

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

How many edges, vertices and faces does a cone have?



1 edge,
0 vertices, 1 flat face,
1 curved surface

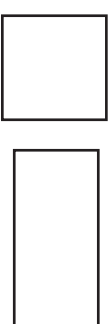


Sorting

Compare and sort common 2D and 3D shapes and everyday objects.

Sort shapes according to the number of faces, sides, vertices or edges.

Tick the shape with 4 sides.

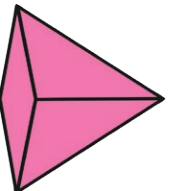


Sorting

Compare and sort common 2D and 3D shapes and everyday objects.

Sort shapes according to the number of faces, sides, vertices or edges.

Tick the shape with 5 vertices.



Sorting

Compare and sort common 2D and 3D shapes and everyday objects.

Sort shapes according to the number of faces, sides, vertices or edges.

Tick the object that is a sphere shape.

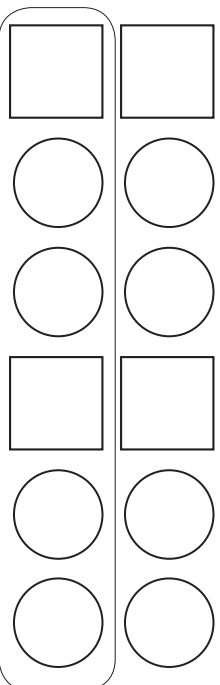




Position, Direction and Movement

Order and arrange combinations of mathematical objects in patterns and sequences.

Continue this sequence:



Sequences can be in different orientations (e.g. vertical).



Position, Direction and Movement

Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

Give instructions to a partner to move from one place to another using quarter and half turns.

Go forward 4 steps.

Practical tasks

Move a quarter turn clockwise.

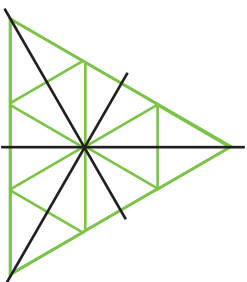
Program a robot to move using different directions and turns.



2D Shape

Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.

- How many triangles can you see?
- Can you create a symmetrical pattern using 2 colours?
- 3 colours?
- Where is the line of symmetry?



13.

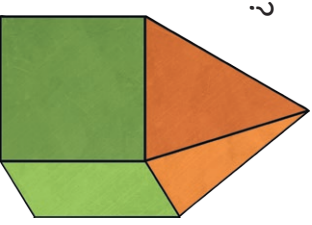
Answers will vary.



2D Shape

Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on a pyramid).

- What 2D shapes are on the surface of this shape?
- How many triangular faces does this shape have? How do you know?



triangles and squares
Answers will vary



3D Shape

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

There is a 3D shape in the bag. It has a curved surface. What shapes could it be? What shapes could it not be? Describe a shape to your friend and see if they can guess which shape you are describing. Could it be a different shape?

It could be a sphere, cylinder or cone.
It couldn't be a cube, cuboid, triangular prism or square based pyramid.



2D Shape

Compare and sort common 2D and 3D shapes and everyday objects. Sort shapes according to the number of faces, sides, vertices or edges.

Sort these shapes into 2 different groups.
How could you sort them?



Practical task
– answers will vary

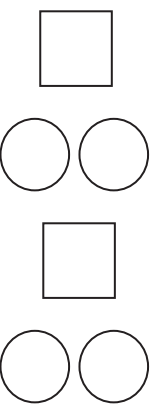


Position, Direction and Movement

Order and arrange combinations of mathematical objects in patterns and sequences.

Continue this sequence:

What would be the 24th pattern be in the sequence? How do you know?



When you count them this is the 24th shape in the sequence or you use $6 \times 4 = 24$ to help.



Position, Direction and Movement

Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

3 instructions: Forward 1 square, make a quarter right turn, forward 3 squares.

4 instructions: Make a quarter right turn, forward 3 squares, make a quarter left turn, forward 1 square.

3 is the fewest amount of instructions you can use as the Bee-Bot doesn't move squares to the left and right, it must make a turn then move along the squares forwards or backwards.