

Max the Monkey's Shape Safari

Learning objective: To identify and describe the properties of 2D and 3D shapes.

Help Max the monkey solve these shape puzzles by using your knowledge of sides, vertices, and faces.

Max the monkey is exploring the jungle to find geometric shapes hidden in nature. He finds a bright yellow sun that looks like a circle. Then, he spots a tall, square-based pyramid made of stone. Max knows that a square has 4 straight sides and 4 vertices. He also finds a honeycomb made of hexagons, which have 6 sides! Max loves to count the faces and edges of 3D objects to see how they fit together like a clever maths puzzle.

Word bank: sides · vertices · faces · edges · curved · straight · sphere · pentagon

1. Max finds a shape with 3 sides and 3 vertices. What is the name of this shape? (1 mark)

2. Look at a cube. How many faces does a cube have in total? (1 mark)

3. Explain the difference between a circle and a square using the words 'straight' and 'curved'. (2 marks)

4. Max has a cylinder. Does it have any flat faces? If yes, how many? (2 marks)

5. Name one 3D shape that has only one curved surface and no vertices. (1 mark)

Draw: Draw a picture of a robot made entirely of 2D shapes. Label the shapes you used, such as rectangles, triangles, and circles.



Extension challenge: Max finds a shape with 5 sides and 5 vertices. Can you name this shape and draw two of them in your book?