

Max's Shape Safari

Learning objective: To identify, describe, and compare 2D and 3D shapes, including counting sides, vertices, and faces.

Help Max the monkey solve these maths puzzles by looking closely at the properties of shapes. Remember to count carefully!

Word bank: vertex · edge · face · curved · straight · quadrilateral · pentagon · sphere · pyramid · cube

1. Max has a shape with 4 straight sides and 4 vertices. All sides are the same length. What is the name of this 2D shape? (1 mark)

2. Look at a cube. How many faces does it have? How many vertices does it have? (2 marks)

3. Zara the zebra is drawing a pentagon. How many sides does her shape have? How many vertices does it have? (2 marks)

4. Which of these shapes has a curved surface: a square, a circle, or a triangle? Explain how you know. (2 marks)

5. Max finds a shape that is like a ball. What is the mathematical name for this 3D shape, and does it have any edges? (2 marks)

Draw: Draw a pattern using three different 2D shapes (like squares, triangles, or hexagons) and label the vertices on each shape.



Extension challenge: Find three objects in your classroom or at home that are 3D shapes. Write down the name of the object and the 3D shape it represents (e.g., a tin of beans is a cylinder).