

Max the Monkey's Geometry Jungle Adventure

Learning objective: To identify, describe, and classify 2D and 3D shapes, and to recognise angles and lines of symmetry.

Read the questions carefully and use your knowledge of geometry to help Max solve his jungle puzzles. Remember to use a ruler for drawing tasks.

Max the Monkey is exploring the Jungle of Shapes. He notices that the giant leaves are shaped like triangles and the tropical flowers have petals that look like hexagons. Max needs to map out the jungle path, but he needs your help to identify the shapes and angles he finds along the way.

Word bank: acute · obtuse · right angle · parallel · perpendicular · symmetry · vertex · polygon

1. Max finds a leaf shaped like a quadrilateral with two pairs of parallel sides and four right angles. What is the name of this shape? (1 mark)

2. Look at the corner of a square stone. Is this angle an acute, obtuse, or right angle? Explain how you know. (2 marks)

3. Max draws a pentagon. How many vertices does a pentagon have, and how many lines of symmetry could a regular pentagon have? (2 marks)

4. Identify two shapes in the room around you that have at least one pair of perpendicular lines. Name the shapes and describe where the perpendicular lines are. (3 marks)

5. Max picks up a 3D object that has 6 square faces, 8 vertices, and 12 edges. What is the name of this 3D shape? (1 mark)

Draw: Draw a composite shape made of one rectangle and one triangle. Use a dotted line to show one line of symmetry for your new shape.



Extension challenge: Max challenges you: Can you draw a shape that has no lines of symmetry but has at least one obtuse angle? Label the obtuse angle clearly.