

Max's Shape Explorer: Geometry Hunt

Learning objective: To identify, describe, and classify 2D and 3D shapes, including recognising angles and parallel lines.

Max the monkey has been busy sorting objects in his jungle workshop. Look at the shapes and items listed below. Follow the instructions for each question to help Max organise his collection. You will need to think about sides, vertices, and the properties of shapes.

Word bank: Right angle · Parallel lines · Vertex · Polygon · Face · Edge · Horizontal · Vertical

1. Max has a square tile and a rectangle tile. How many right angles does each shape have in total? Explain why they are both quadrilaterals. (2 marks)

2. Identify the shape: 'I have 5 faces, 9 edges, and 6 vertices.' What is the name of this 3D shape? (1 mark)

3. Max finds a triangle with all sides the same length. What is the special name for this triangle, and how many lines of symmetry does it have? (2 marks)

4. Look at a cuboid. How many faces are there in total, and are the opposite faces identical? (2 marks)

5. Max draws a shape with two pairs of parallel lines. Name one shape he could have drawn and sketch its parallel lines. (2 marks)

Draw: Draw a composite shape made of one square and one triangle joined together. Label one vertex and one right angle on your drawing.



Extension challenge: Go on a 'Shape Safari' around your classroom or home. Find three items that have at least one pair of parallel lines. List the items and describe the 2D shape of their faces.