

# Max's Shape Adventure: Year 2 Maths Assessment

*Learning objective: To identify, describe, and compare 2D and 3D shapes, including their properties and lines of symmetry.*

Read each question carefully. Use a pencil to draw your shapes and a ruler for straight lines. You have 30 minutes to complete the paper.

Max the monkey is tidying his jungle den. He has found many shapes and needs your help to sort them out before he can start his maths puzzles.

*Word bank: vertex · edge · face · curved · straight · symmetry · sphere · cuboid · pentagon*

**1. Max finds a shape with 3 sides and 3 vertices. What is the name of this 2D shape? (1 mark)**

**2. Look at a cube and a cuboid. Explain one way they are the same and one way they are different. (2 marks)**

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**3. Draw a line of symmetry on a rectangle. Explain why your line makes the shape symmetrical. (3 marks)**

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**4. Max has 4 shapes: a circle, a square, a triangle, and a hexagon. Sort these shapes into a table based on whether they have only straight sides or any curved sides. (4 marks)**

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**5. Max is building a tower. He uses two cylinders and one sphere. How many faces does a cylinder have? How many edges does a sphere have? (4 marks)**

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6. Imagine you are Max. Write a short explanation (3-5 sentences) describing the difference between a 2D shape and a 3D shape. Include the words 'flat' and 'solid' in your answer. (6 marks)

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7. If Max has a pattern of shapes: Square, Circle, Square, Circle... what shape comes next? Draw it. (5 marks)

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Draw: Draw a 3D shape that has 6 square faces. Label it with the correct name. \_\_\_\_\_



*Extension challenge: Total: /25*