

Max's Magnificent Symmetry Hunt

Learning objective: To identify, describe, and complete symmetric 2D shapes with respect to a line of symmetry.

Read each question carefully. Use a ruler to help you draw lines of symmetry accurately. Max the monkey needs your help to solve these pattern puzzles!

Word bank: Symmetry · Line of symmetry · Reflect · Mirror line · Horizontal · Vertical · Diagonal

1. Max has found three different shapes. Draw all possible lines of symmetry on a square, a rectangle, and a regular pentagon. (3 marks)

2. Look at the letter 'A'. Does it have a vertical or horizontal line of symmetry? Explain how you know. (2 marks)

3. Zara has drawn half of a butterfly. If the dotted line is the mirror line, draw the missing half to complete the symmetric pattern. (2 marks)

4. A shape has exactly one vertical line of symmetry and looks like a triangle. Name the shape and describe its properties. (2 marks)

5. If you reflect the digit '8' across a vertical line, does it change? Why or why not? (2 marks)

Draw: Draw a 6x6 grid. Create your own original symmetric pattern using geometric shapes like triangles and squares. Ensure your line of symmetry is clearly marked with a dashed line.



Extension challenge: Find three objects in your classroom that have at least one line of symmetry. Write down the name of the object and describe where the line of symmetry is (e.g., 'down the middle').