Max’s Symmetry Masterclass

Learning objective: To identify, describe and draw lines of symmetry in 2D shapes and patterns.

Use these flashcards to test your knowledge of symmetry. Max the Monkey has prepared these challenges to help you master reflections and shapes!

What is a line of symmetry?	An imaginary line where you can fold a shape in half so that both halves match exactly.
How many lines of symmetry does a regular square have?	4 (two diagonals, one horizontal, and one vertical).
True or False: A scalene triangle has at least one line of symmetry.	False. A scalene triangle has no lines of symmetry.
What do we call a shape where every side and every angle is the same?	A regular polygon.
How many lines of symmetry does a regular pentagon have?	5.
If a shape is reflected across a vertical line, what happens to its orientation?	The shape appears as a mirror image; the left and right sides are swapped.
Does a circle have a finite or infinite number of lines of symmetry?	Infinite; any line passing through the centre is a line of symmetry.
Max draws a rectangle. How many lines of symmetry does it have?	2 (one vertical, one horizontal).
What is the term for a line of symmetry that goes from corner to corner?	A diagonal line of symmetry.
Does a parallelogram have a line of symmetry?	No, a standard parallelogram has no lines of symmetry.
If you reflect a point at (2, 3) across the y-axis, what are the new coordinates?	(-2, 3).
Which shape has exactly 3 lines of symmetry?	An equilateral triangle.