

Max's Geometry Challenge: Mastering Shapes and Angles

Learning objective: To identify, describe, and calculate properties of 2D and 3D shapes, including angles and coordinates, as per the Year 6 National Curriculum.

Use these flashcards to test your knowledge of geometry. Read the question on the front, think of the answer, then reveal the answer on the back.

Max asks: What is the sum of angles in any triangle?	Max asks: What is a reflex angle?
180 degrees.	An angle that is greater than 180 degrees but less than 360 degrees.
Max asks: How many faces does a cube have?	Max asks: What do we call lines that are always the same distance apart and never meet?
6 faces.	Parallel lines.
Max asks: What is the name for a 2D shape with five sides?	Max asks: If you reflect a shape across a vertical line, what happens to the shape?
A pentagon.	It creates a mirror image, flipping it horizontally.
Max asks: What is the formula to calculate the area of a rectangle?	Max asks: What is a vertex?
Length multiplied by width.	A point where two or more edges meet (the corner).
Max asks: What is the value of a right angle?	Max asks: If a shape is translated on a grid, does its size or orientation change?
90 degrees.	No, it only changes its position.
Max asks: What is a quadrilateral?	Max asks: What do we call lines that meet at a 90-degree angle?
Any 2D shape with four straight sides.	Perpendicular lines.