

Max's Geometry Garden: The Great Angle Hunt

Learning objective: To identify, estimate, and measure angles, and to distinguish between acute, obtuse, and reflex angles.

Max the monkey has been busy building a garden! He has laid out paths and flowerbeds at different angles. Look at the diagrams of Max's garden paths below and complete the tasks. For each question, decide if the angle shown is acute (less than 90°), obtuse (between 90° and 180°), or reflex (more than 180°).

Word bank: Acute · Obtuse · Reflex · Right angle · Degrees · Protractor · Vertex

1. Max's stone path creates a sharp corner of 45° . What type of angle is this, and how do you know? (2 marks)

2. The garden gate opens to an angle of 120° . Is this an acute, obtuse, or reflex angle? Explain your reasoning. (2 marks)

3. A birdbath in the corner measures exactly 90° . What is the mathematical name for this specific angle? (1 mark)

4. Look at the outer edge of the circular pond. The angle around the edge is 210° . Why is this classified as a reflex angle? (2 marks)

5. If Max adds a new fence piece at 89° , would it be an acute or obtuse angle? Justify your answer. (2 marks)

Draw: Draw a sketch of Max's garden. Include one acute angle (a pointy flowerbed), one obtuse angle (a wide garden bench), and one right angle (a square-shaped vegetable patch). Label each angle with its estimated degree.



Extension challenge: Imagine Max wants to build a zigzag path. If he makes three consecutive turns of 60° , what is the total sum of the angles? Can you draw what this zigzag path might look like?