

Max's Geometry Garden Adventure

Learning objective: To identify, compare, and order angles up to two right angles, and recognise that two right angles make a half-turn and four make a whole turn.

Max the monkey is designing a symmetrical vegetable patch in his garden. He needs your help to identify the angles of his garden paths. Look at the shapes below and label each angle as 'acute', 'right angle', or 'obtuse'. Then, use your knowledge of turns to solve Max's puzzles.

Word bank: acute · right angle · obtuse · clockwise · anticlockwise · half-turn · quarter-turn

1. Max has a path shaped like a triangle. Two of the angles are less than a right angle. What is the name for these angles? Explain why they are smaller than a right angle. (2 marks)

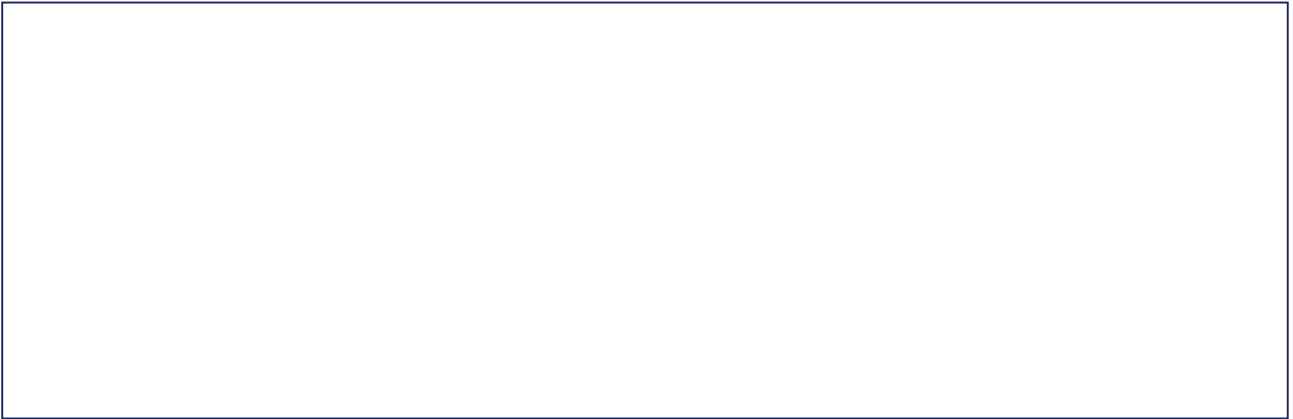
2. Max stands at the start of the path. He makes a quarter-turn clockwise to reach his carrot patch. How many right angles has he turned? (2 marks)

3. A corner of the garden fence has an angle that is larger than a right angle but smaller than a half-turn. What is the correct mathematical name for this angle? (2 marks)

4. If Max completes a full turn, how many right angles has he turned in total? (2 marks)

5. Max finds a stone with an angle that looks exactly like the corner of a square. Is this an acute or a right angle? How do you know? (2 marks)

Draw: Draw a map of Max's garden. Include at least one acute angle, one right angle, and one obtuse angle formed by the paths. Label each angle clearly.



Extension challenge: Challenge: If Max turns 90 degrees clockwise, then 90 degrees clockwise again, what total turn has he made in terms of 'turns' (e.g., half-turn) and how many degrees is that?