

Max's Geometry Garden Adventure

Learning objective: To identify, compare, and order angles; to recognise acute, obtuse, and right angles.

Read the story below and help Max the monkey solve the mathematical puzzles he finds in his garden. Use a ruler to help you draw your shapes clearly.

Max the monkey is busy tidying up his garden. He notices that the wooden gate has a perfect corner that looks like an 'L' shape. He calls this a right angle. As he walks along the path, he finds a fallen leaf with a very sharp, narrow point that is smaller than a right angle. He calls this an acute angle. Finally, Max spots a large, sleepy snail shell that curls open wide, wider than a right angle. He decides to label this an obtuse angle. Max wants to make sure he has found all the different types of angles before he goes to buy some flower seeds which cost £3.50 per packet.

Word bank: acute · obtuse · right angle · degrees · straight line · vertex

1. Max found a leaf with an angle smaller than a right angle. What is the mathematical name for this type of angle? (1 mark)

2. Looking at the gate, Max says it has a right angle. How many degrees are in a right angle? (1 mark)

3. If Max buys two packets of flower seeds at £3.50 each, how much money does he spend in total? (2 marks)

4. Describe the difference between an acute angle and an obtuse angle. (2 marks)

5. Max draws a shape with four sides where every corner is a right angle. Name one shape he could have drawn. (1 mark)

Draw: In the space below, draw one acute angle, one right angle, and one obtuse angle. Label each one correctly.



Extension challenge: Max wants to build a triangular birdhouse. He says, 'If I make a triangle with one obtuse angle, can I have two right angles in the same triangle?' Explain why or why not using your knowledge of angles.