Max’s Geometry Garden Adventure

Learning objective: To identify, compare, and order angles as greater than, less than, or equal to a right angle.

Help Max the monkey organise his garden. Read the descriptions of the angles found in the park and answer the questions below. Remember that a right angle is exactly 90 degrees, like the corner of a square.

Max is busy mapping out his new garden. He notices that the gate hinge forms a perfect square corner, which he calls a right angle. He looks at the slide, which is wider than a square corner, creating an obtuse angle. Finally, he looks at the narrow tip of a leaf, which is sharper than a square corner, forming an acute angle. Max wants to make sure all his paths and flowerbeds are measured correctly.

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

1. Max finds a flowerbed shaped like a square. What type of angle is found at each corner of the square? (2 marks)

2. The slide in the garden is wider than a right angle. What is the mathematical name for this type of angle? (1 mark)

3. A small thorn on a rose bush has an angle that is smaller than a right angle. If Max calls this an 'acute' angle, is he correct? Explain your answer. (2 marks)

4. If Max places two right angles together, he creates a straight line. How many degrees is a straight line? (1 mark)

5. Look at the letters in the word 'MATHS'. Which letters contain at least one right angle? (2 marks)

Draw: Draw a bird's-eye view of Max’s garden. Include one path that meets another at an acute angle, one fence corner that is a right angle, and a bench shaped with an obtuse angle. Label your angles.

Extension challenge: Max has a collection of 5 wooden sticks. If he lays them out to create a shape with one obtuse angle, two acute angles, and two right angles, what shape might he have made? Draw it and label the angles.