Max’s Geometry Garden: Exploring Angles

Learning objective: Identify, compare, and draw acute, obtuse, and right angles.

Max the monkey is designing a new garden maze! He needs to make sure all the corners are perfect. Follow the instructions below to help Max sketch his garden layout using your ruler and a sharp pencil.

Max is planning a garden with different shaped flowerbeds. He knows that a right angle looks like the corner of a square and is exactly 90 degrees. An acute angle is smaller than a right angle, like a sharp beak. An obtuse angle is wider than a right angle but smaller than a straight line. Max needs your help to draw the shapes for his garden paths.

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

1. Max draws a triangular flowerbed. He says all three corners are acute angles. Can you explain what an acute angle is in your own words? (2 marks)

2. If Max draws a square path, what type of angles are at the four corners? How many degrees is each of those angles? (2 marks)

3. Look at your drawings. If you have an angle that is 120 degrees, would you classify this as acute or obtuse? Why? (2 marks)

4. Draw an angle that is 90 degrees on the blank space provided. (2 marks)

5. Max wants to add a path shaped like a 'V'. Is this angle acute or obtuse? Draw it below. (2 marks)

Draw: Using a ruler, draw a garden map for Max that includes one square flowerbed (with four right angles), one long path with an obtuse angle, and one small triangular bush with three acute angles.

Extension challenge: Can you draw a shape that has one right angle, one acute angle, and one obtuse angle all in the same shape? Label each angle correctly!