Max’s Magnificent Geometry Garden

Learning objective: To identify, compare, and order angles as acute, obtuse, or right angles.

Read the story about Max the monkey’s garden project, then answer the questions below to help him finish his maths puzzle.

Max the monkey has decided to redesign his garden. He wants to make sure everything is perfectly placed. Max knows that a right angle is exactly 90 degrees, just like the corner of a square. If an angle is smaller than a right angle, it is called an acute angle. If it is larger than a right angle but smaller than a straight line, it is called an obtuse angle. Max has built three garden beds. The first bed is a perfect square. The second bed is a long, thin triangle with one very sharp corner. The third bed is a large, wide flower box that opens up like a hungry crocodile's mouth. Max is measuring these angles to help his plants grow in the right direction.

Word bank: acute · obtuse · right angle · degree · vertex

1. Max says the corner of his square garden bed is a right angle. How many degrees is a right angle? (1 mark)

2. The long, thin triangle bed has a very sharp corner. Is this an acute or an obtuse angle? Explain how you know. (2 marks)

3. Max’s flower box opens up wide, like a crocodile's mouth. If this angle is larger than 90 degrees, what is the mathematical name for it? (1 mark)

4. Look at the letter 'L'. What type of angle is formed where the two lines meet? (1 mark)

5. Max finds an angle that is 45 degrees. Is this an acute or obtuse angle? How do you know? (2 marks)

Draw: Draw a picture of Max’s garden. Include one garden bed with an acute angle, one with a right angle, and one with an obtuse angle. Label each angle correctly.

Extension challenge: Find three objects around your classroom that have angles. Write down what they are and classify each angle as acute, right, or obtuse. Can you find an angle that is exactly 180 degrees?