

Max's Geometric Garden Adventure

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

Max the monkey is helping in the community garden! Look at the garden tools and paths below. Use a coloured pencil to highlight the angles you find. Label each one as acute, obtuse, or a right angle.

Max is busy measuring the corners of the flower beds. He knows that a right angle is exactly 90 degrees, 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 (180 degrees), it is called an obtuse angle. Max uses his trusty protractor to check his work as he designs a new path for the garden.

Word bank: Acute · Obtuse · Right angle · Degree · Vertex · Straight line

1. Max finds a corner of a wooden crate that measures exactly 90 degrees. What is the mathematical name for this type of angle? (1 mark)

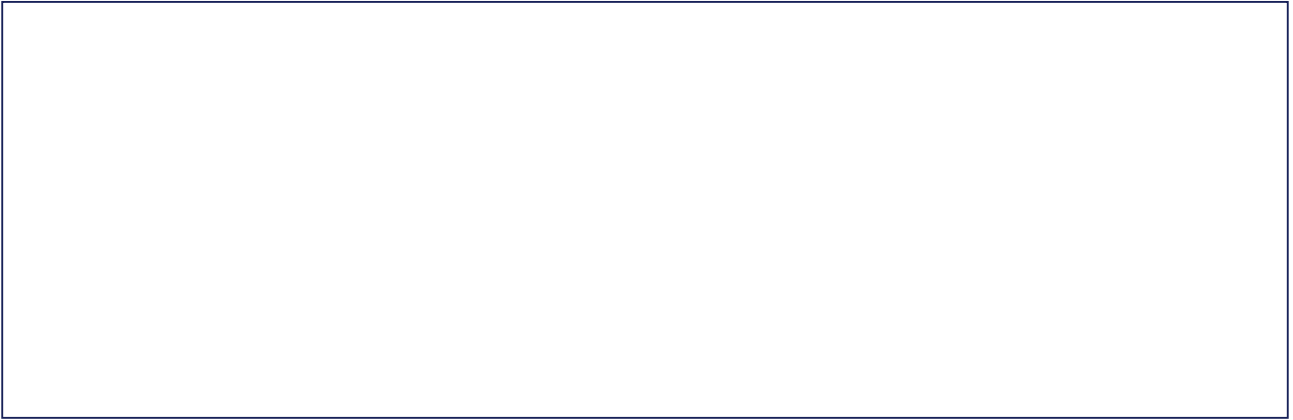
2. If Max opens a garden gate halfway, it makes a 90-degree angle. If he opens it fully until it makes a straight line, how many degrees has the gate turned in total? (2 marks)

3. Look at the corner of a triangular leaf. It is smaller than a right angle. Explain how you know it is an acute angle. (2 marks)

4. Max sees a garden rake. The space between the handle and the metal teeth is wider than a right angle. Is this an acute or obtuse angle? (1 mark)

5. Draw an example of an obtuse angle and label the vertex. (2 marks)

Draw: A friendly monkey named Max standing in a sunny garden. He is holding a large wooden ruler and a protractor. Surrounding him are various flower beds and garden tools that have clear, distinct angles for the children to colour and identify: a square-shaped planter, a triangular trowel, and a wide-open pair of garden shears.



Extension challenge: Can you find three different items in your classroom that have right angles? List them and then draw a shape that has at least one obtuse angle.