

## Max's Geometric Garden Adventure

*Learning objective: To identify, draw, and measure angles including acute, obtuse, right, and reflex angles.*

Help Max the monkey design his garden. Use your ruler and protractor to draw the shapes requested on the grid below. Ensure all angles are clearly labelled.

**Draw:** Create a garden scene on a 2cm grid background. Include a square-shaped sandbox (right angles), a long straight garden path, and a variety of triangular or kite-shaped flowerbeds. Use a sharp pencil and a ruler to ensure lines are straight. Add small trees and flowers around the edges to make the garden look inviting.



*Label words: Acute angle · Obtuse angle · Right angle · Reflex angle · Straight line · Protractor*

### Steps:

1. Draw a wooden gate frame with one corner forming a right angle ( $90^\circ$ ). Label the angle.
2. Max wants a triangular flowerbed. Draw a triangle that has one acute angle (less than  $90^\circ$ ) and one obtuse angle (greater than  $90^\circ$ ).
3. Draw a reflex angle (greater than  $180^\circ$ ) representing a path turning around a large oak tree.
4. If Max measures an angle as  $45^\circ$ , which type of angle is it? Explain how you know.
5. Draw a straight line to represent a fence. Mark a point on the line and draw a ray coming off it to create two angles that add up to  $180^\circ$ .