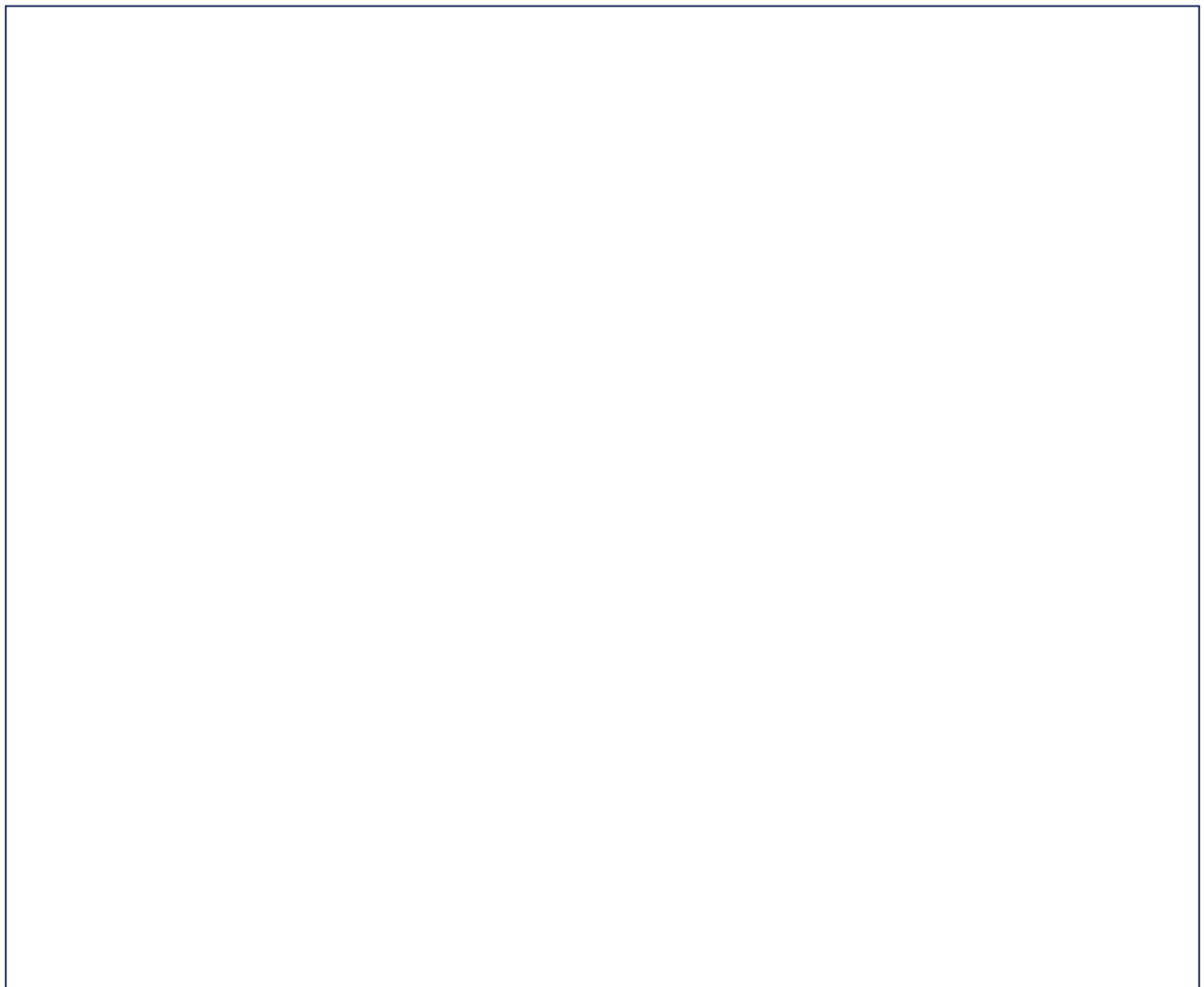


Max's Geometric Garden Design

Learning objective: To identify, estimate, and draw angles of various sizes, including acute, obtuse, and reflex angles, with increasing accuracy.

Max the monkey is planning a new garden layout for his jungle home. Use your protractor and ruler to complete the design according to the specifications below. Ensure your lines are sharp and your measurements are precise.

Draw: Create a garden scene on a blank piece of paper. Use a sharp pencil and a ruler to draw precise geometric shapes. Include a 'Banana Path' at 45 degrees and a 'Climbing Frame' at 135 degrees. Decorate the garden with flowers and trees, but ensure all paths and structures are based on the angles you have measured. The style should be clean, technical, and architectural.



Label words: Acute angle · Obtuse angle · Reflex angle · Right angle · Protractor · Vertex · Degrees

Steps:

1. Step 1: Draw a straight line 8cm long at the bottom of your page. From the left endpoint, draw an angle of 45 degrees. Label this 'The Banana Path'.
2. Step 2: From the same starting point, draw a second line that creates an obtuse angle of 135 degrees with the first line. Label this 'The Climbing Frame'.

3. Step 3: Draw a small square shape in the corner of your garden. Mark the interior corner with a symbol to show it is a 90-degree right angle.
4. Explain why the angle you drew for 'The Climbing Frame' is classified as an obtuse angle. Use the properties of a right angle in your justification.
5. If Max decided to extend the Banana Path to create a reflex angle at the vertex, what is the minimum number of degrees that angle must exceed?
6. Compare and contrast a right angle and a reflex angle. How do their properties differ in terms of rotation?