

Max's Geometric Garden Adventure

Learning objective: To identify, draw, and label acute, obtuse, and right angles within a geometric scene.

Follow the drawing prompts to create your own geometric garden. Once your scene is complete, use the word bank to label the specific angles you have created.

Draw: Draw a vibrant garden scene from a bird's-eye view. Include a square flowerbed, a triangular garden shed, and a winding path. Ensure your drawing includes at least two distinct right angles, one acute angle, and one obtuse angle. Use a ruler to ensure your lines are straight and clear. Once finished, draw a small arc inside each angle and label them using the correct mathematical terms from the word bank.



Label words: Acute angle · Obtuse angle · Right angle · Straight line · Vertex · Degrees

Steps:

1. Step 1: Draw a large square flowerbed. Label the four corners. What type of angle is found at each corner?
2. Step 2: Draw a triangular shed with a steep roof. Identify one acute angle on the roof and label it.
3. Step 3: Draw a path leading to the shed. Create an obtuse angle where the path bends. Label the vertex.
4. Explain why a right angle is exactly 90 degrees, but an obtuse angle must be greater than 90 degrees.
5. Compare and contrast a right angle and an acute angle. How can you tell them apart just by looking?

6. What might happen to the shape of the shed roof if you changed the acute angles into obtuse angles? Justify your answer.