Max’s Magnificent Angles Adventure

Learning objective: To identify, compare, and order angles by size (acute, obtuse, and right angles).

Read about Max the monkey’s day in the jungle and use your knowledge of angles to help him solve his maths puzzles. Remember: a right angle is exactly 90 degrees, an acute angle is smaller than a right angle, and an obtuse angle is larger than a right angle but smaller than 180 degrees.

Max the monkey is busy tidying up the jungle floor. He notices that the branches, leaves, and logs all make different angles. He finds a leaf with a sharp, pointy corner that is smaller than a corner of a square. He finds a tree branch that stands perfectly straight up from the ground, creating a square corner. Finally, he finds a wide-open gap between two large vines that looks much wider than a square corner. Max needs your help to label these angles correctly so he can finish his jungle map!

Word bank: acute · obtuse · right angle · degrees · vertex · turn

1. Max finds a leaf with an angle smaller than 90 degrees. What is the name of this type of angle? (1 mark)

2. The tree branch stands perfectly upright. If the branch and the ground form a 90-degree angle, what do we call this angle? (1 mark)

3. The gap between the two vines is 120 degrees. Is this an acute or an obtuse angle? Explain how you know. (2 marks)

4. Look at these three angles: 45 degrees, 90 degrees, and 135 degrees. Order them from smallest to largest. (2 marks)

5. Max turns a full circle to look at the trees. How many degrees are in a full turn? (1 mark)

Draw: Draw three different angles on your page: one acute angle, one right angle, and one obtuse angle. Label each one clearly.

Extension challenge: Max wants to know how many right angles there are in a rectangle and a square. Does the number of right angles change if the shape gets bigger? Explain your reasoning.