

# Max the Monkey's Angle 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 and four make a whole turn.*

Help Max the Monkey solve his jungle geometry puzzles! Read the definitions below and use your knowledge of angles to answer the questions. Remember: a right angle is exactly 90 degrees, like the corner of a square.

Max the Monkey is exploring the jungle. He notices that when he swings from a branch, his arm creates different angles. He knows that an acute angle is smaller than a right angle, and an obtuse angle is larger than a right angle but smaller than a straight line. Max has gathered some sticks to show these shapes to his friends.

*Word bank: Right angle · Acute angle · Obtuse angle · Degrees · Turn · Straight line*

**1. Max finds an angle that is smaller than a right angle. What is the mathematical name for this type of angle? (1 mark)**

**2. If Max makes a quarter turn, what type of angle has he created? How many degrees is this? (2 marks)**

**3. Look at these three angles: Angle A is  $45^\circ$ , Angle B is  $120^\circ$ , and Angle C is  $90^\circ$ . Put them in order from smallest to largest. (2 marks)**

**4. Max says that two right angles joined together make a straight line. Is he correct? Explain your reasoning. (2 marks)**

**5. How many right angles are there in a full 360-degree turn? (1 mark)**

**Draw:** Draw a set of three different angles on your page. Label one 'acute', one 'right angle', and one 'obtuse'. Make sure the obtuse angle is wider than the right angle.



*Extension challenge: Max wants to know how many degrees are in a three-quarter turn. Can you calculate the total and explain how you found your answer?*