

Year 4 Maths Assessment: Exploring Angles

Learning objective: To identify, compare, and order angles, and to recognise turns and symmetry.

Read each question carefully. Show your working out where possible. Use a ruler to draw straight lines.

Max the monkey is helping his friends organise a garden party. He is using his knowledge of angles to make sure the decorations are perfectly placed. Help Max solve these geometry puzzles.

Word bank: acute · obtuse · right angle · degrees · clockwise · anti-clockwise · quarter turn · straight line

1. Max turns a circular party banner one quarter turn clockwise. How many degrees has the banner turned? (2 marks)

2. Look at the following angles: 45° , 90° , and 130° . Circle the angle that is an obtuse angle and explain why you chose it. (3 marks)

3. Identify whether the angles below are acute, obtuse, or right angles: A) 30° , B) 90° , C) 150° . (3 marks)

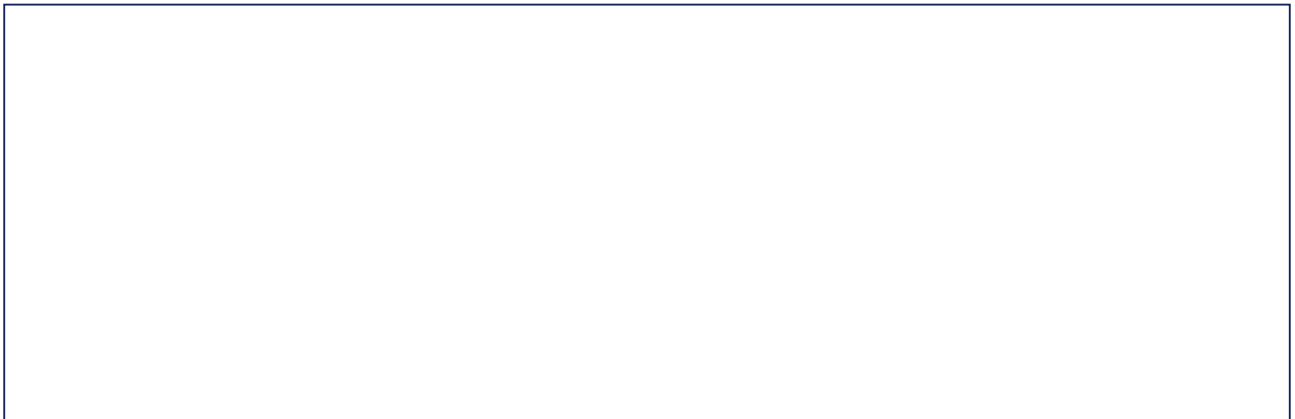
4. Max walks from the picnic bench to the oak tree. He turns 90 degrees anti-clockwise. Draw a simple diagram to show the path Max took. Include a starting point and an ending point. (4 marks)

5. Compare an acute angle and an obtuse angle. Explain the difference between them using the term '90 degrees' in your answer. (4 marks)

6. Max wants to arrange four triangular bunting flags. He claims that if he puts two right angles together, they make a straight line. Is Max correct? Explain your reasoning using your knowledge of degrees. (5 marks)

7. If a clock starts at 12:00 and the minute hand moves to 3:00, what type of angle has been created? (4 marks)

Draw: Draw three different shapes. Label one acute angle, one obtuse angle, and one right angle found within your shapes.



Extension challenge: Total: /25