

## Grade 3 Math Assessment: Exploring Angles

*Learning objective: To identify, compare, and order angles, and to recognize 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 organize 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:  $45^\circ$ ,  $90^\circ$ , and  $130^\circ$ . Circle the angle that is an obtuse angle and explain why you chose it. (3 marks)**

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**3. Identify whether the angles below are acute, obtuse, or right angles: A)  $30^\circ$ , B)  $90^\circ$ , C)  $150^\circ$ . (3 marks)**

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**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)**

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

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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)

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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)

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



*Extension challenge: Total: /25*