

# Max's Magnificent Maths: The Angle Adventure

*Learning objective: Identify acute, obtuse, and right angles; recognise turns and compare angles in shapes.*

Help Max the monkey solve these geometry puzzles! Use your knowledge of angles to navigate the jungle paths. Write your answers clearly.

Answer Key: 1. B, 2. True, 3. Right angle, 4. C, 5. True, 6. A, 7. Obtuse, 8. False, 9. 90, 10. B. Greater Depth logic: An acute angle is always less than 90 degrees; an obtuse angle is between 90 and 180 degrees.

*Word bank: Acute · Obtuse · Right angle · Degree · Clockwise · Quarter turn · Straight line*

**1. 1. Max is looking at a corner of a square tile. What type of angle is it? A) Acute B) Right angle\* C) Obtuse D) Reflex (1 mark)**

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**2. 2. True or False: An acute angle is always smaller than a right angle. (1 mark)**

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**3. 3. If a shape has an angle greater than 90 degrees but less than 180 degrees, what is it called? (1 mark)**

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**4. 4. Max turns from North to East. What fraction of a turn is this? A) Full turn B) Half turn C) Quarter turn\* D) Three-quarter turn (1 mark)**

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**5. 5. True or False: A straight line is equal to two right angles put together. (1 mark)**

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**6. 6. Which of these angles is the smallest? A) 30 degrees\* B) 90 degrees C) 100 degrees D) 120 degrees (1 mark)**

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**7. 7. What do we call an angle that is wider than a right angle? (1 mark)**

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**8. 8. True or False: All triangles have at least one obtuse angle. (1 mark)**

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**9. 9. How many degrees are in a perfect right angle? (1 mark)**

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**10. 10. Max makes a half-turn. How many degrees has he rotated? A) 90 B) 180\* C) 270 D) 360 (1 mark)**

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**Draw:** Draw a treasure map for Max that includes one acute angle, one obtuse angle, and one right angle hidden in the landscape features.



*Extension challenge: 1. Explain why a square cannot contain an obtuse angle. 2. Compare and contrast an acute angle and an obtuse angle. 3. Justify your answer: Can a triangle have two right angles? Why or why not? 4. What might happen if a clock's hands were always at a 180-degree angle? 5. If Max buys a triangular wedge of cheese for £2.50, and all its angles are acute, what type of triangle is it? 6. Design a polygon with five sides and label every internal angle as either acute or obtuse.*