

Max's Magnificent Shape Safari

Learning objective: To identify, describe, and classify 2D and 3D shapes, including properties such as symmetry, angles, and parallel lines.

Max the monkey is exploring the jungle to find geometric patterns! Read each question carefully and circle the correct answer or write your response in the space provided.

Answer Key: 1. B (Square), 2. False, 3. True, 4. Acute, 5. 6, 6. True, 7. C (All sides are equal), 8. A (Sphere), 9. False, 10. A (It has at least one right angle).

Word bank: Polygon · Parallel · Perpendicular · Vertex · Acute · Obtuse · Symmetry

1. 1. Max found a shape with 4 equal sides and 4 right angles. Which shape is it? A) Rectangle B) Square* C) Rhombus D) Trapezium (1 mark)

2. 2. True or False: A triangle can have two obtuse angles. (1 mark)

3. 3. True or False: A regular hexagon has six equal sides. (1 mark)

4. 4. An angle that is smaller than a right angle (less than 90 degrees) is called an _____ angle. (1 mark)

5. 5. How many faces does a cube have? (1 mark)

6. 6. True or False: Parallel lines are lines that will never meet, no matter how far you extend them. (1 mark)

7. 7. Which statement is true about a rectangle? A) It has 3 sides B) It has 4 unequal sides C) Opposite sides are equal in length* D) It has no right angles (1 mark)

8. 8. Which 3D shape has only one curved surface and no vertices? A) Sphere* B) Cube C) Cylinder D) Pyramid (1 mark)

9. 9. True or False: A circle is a type of polygon. (1 mark)

10. 10. Which is true about a right-angled triangle? A) It has one 90-degree angle* B) It has three 90-degree angles C) It has no straight sides D) It is a 3D shape (1 mark)

Draw: Draw a composite shape made of one rectangle and one triangle. Label the lines that are parallel to each other using arrows.



Extension challenge: Max has £5.00 to buy triangular tiles for a mosaic. If each tile costs 50p, how many tiles can he buy? Explain how the shape of the tile affects how they fit together without leaving gaps.