

Max's Geometry Jungle Adventure

Learning objective: To identify, describe, and represent the position of a shape following a reflection or translation, and to identify properties of 2D and 3D shapes.

Help Max the monkey solve these geometry puzzles! Read each question carefully and choose the correct answer or write your response in the space provided.

Answer Key: 1.C, 2.True, 3.False, 4.Reflection, 5.Perpendicular, 6.False, 7.A, 8.Vertex, 9.Translation, 10.B

Word bank: Reflection · Translation · Parallel · Perpendicular · Vertex · Face · Edge

1. 1. Max is looking at a square. How many lines of symmetry does a regular square have?

A) 2 B) 3 C) 4* D) 0 (1 mark)

2. 2. True or False: A cube has 12 edges. (1 mark)

3. 3. True or False: An obtuse angle is smaller than 90 degrees. (1 mark)

4. 4. If you flip a shape over a mirror line, what is this movement called? (1 mark)

5. 5. What is the mathematical name for lines that meet at a 90-degree angle? (1 mark)

6. 6. True or False: A rectangle has four sides of equal length. (1 mark)

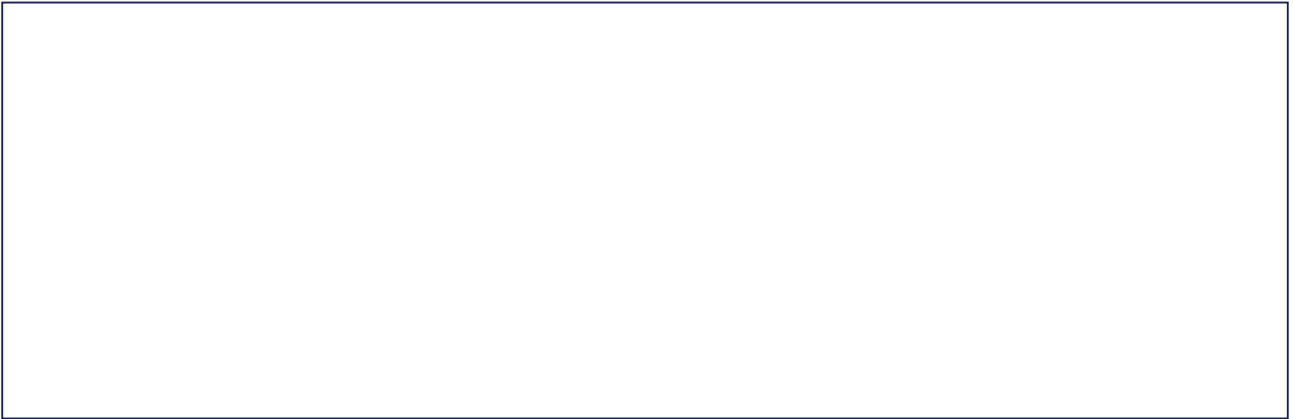
7. 7. Which of these shapes is a regular polygon? A) Equilateral triangle* B) Rectangle C) Scalene triangle D) Trapezium (1 mark)

8. 8. What is the correct term for the point where two or more edges meet on a 3D shape? (1 mark)

9. 9. When you slide a shape across a grid without turning it, what is this movement called? (1 mark)

10. 10. Which angle is exactly 90 degrees? A) Acute B) Right* C) Obtuse D) Reflex (1 mark)

Draw: Draw a composite 2D shape made up of a rectangle and a triangle. Label one set of parallel lines and one right angle.



Extension challenge: Max has a budget of £5.00. He wants to buy 3 geometric stencils that cost £1.20 each. How much change will he get, and what is the total number of vertices on a triangular prism?