

# Max the Monkey's Shape Safari

*Learning objective: To identify, describe, and compare 2D shapes, including identifying lines of symmetry and measuring angles.*

Help Max the Monkey sort the shapes he found in the jungle! Read the descriptions carefully and use your knowledge of geometry to answer the questions.

Max the Monkey has been exploring the ancient stone ruins. He has found many interesting shapes carved into the walls. He found a stone tile that is a regular hexagon, a square brick, and a triangular piece of slate. Max loves to sort these into sets based on their properties, such as how many lines of symmetry they have and whether their angles are acute, obtuse, or right angles. He is currently looking at a rectangle that costs £4.50 to restore and wonders how many right angles he can find on it.

*Word bank: Polygon · Symmetry · Acute · Obtuse · Parallel · Quadrilateral · Perpendicular*

**1. Max finds a square stone. How many lines of symmetry does a square have? Explain how you know. (2 marks)**

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**2. Look at the rectangle Max is restoring. If each right angle is 90 degrees, what is the sum of all four angles in the rectangle? (2 marks)**

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**3. Max finds a shape with three sides of different lengths. What is the specific name for this type of triangle? (1 mark)**

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**4. A regular hexagon has six equal sides. If Max has 6 stone hexagons and each one costs £2.00, how much does he spend in total? (2 marks)**

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**5. Define the difference between an acute angle and an obtuse angle. (2 marks)**

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**Draw:** Draw a shape that has at least one pair of parallel lines and one line of symmetry.  
Label the parallel lines with arrows.



*Extension challenge: Max has found an irregular shape with five sides. Draw this shape and calculate the total number of degrees inside the shape if it can be split into three triangles.*