

# Lines of Symmetry

Chapter 11: Fun with Symmetry · Topic 1

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## Key Concept

A line of symmetry divides a shape into two matching halves - a square has 4 lines of symmetry, while a rectangle has only 2.

A circle has infinite lines of symmetry, since any line through its centre divides it into two equal, matching halves.

Some shapes, like a scalene triangle (with all different side lengths), have no lines of symmetry at all.

Finding lines of symmetry helps us understand shape properties more deeply and appreciate the balance found in many designs and patterns.

## Quick Revision Notes

- A line of symmetry divides a shape into matching halves.
- A square has 4 lines of symmetry.
- A rectangle has 2 lines of symmetry.
- A circle has infinite lines of symmetry.
- A scalene triangle has no lines of symmetry.
- Symmetry lines help understand shape properties.
- Symmetry appears in many designs and patterns.
- Not all shapes have the same number of symmetry lines.

## Practice Questions

- 1 Fold paper cutouts of a square, rectangle and circle to find symmetry lines.
- 2 Draw a shape with 2 lines of symmetry.
- 3 Find an object with symmetry in your home.
- 4 Check if a triangle you draw has any symmetry.
- 5 Draw a design with symmetry.
- 6 Explain why a circle has more symmetry lines than a square.