

Line of Symmetry

1. Line of Symmetry

A line of symmetry is an imaginary line that divides a shape into two equal mirror-image halves.

- If you fold the shape along the line of symmetry, both halves will match exactly.

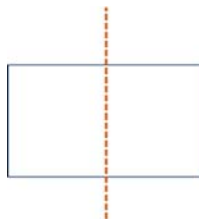
Examples:

- A square has 4 lines of symmetry
- A rectangle has 2 lines of symmetry
- A circle has infinite lines of symmetry
- The letter A has 1 vertical line of symmetry
- A heart shape has 1 vertical line of symmetry

2. Types of Lines of Symmetry

Vertical Line of Symmetry

- Divides a figure from top to bottom



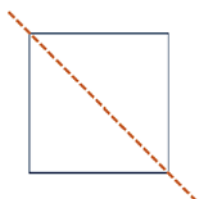
Horizontal Line of Symmetry

- Divides a figure from left to right



Diagonal Line of Symmetry

- Divides a figure corner to corner (like in a square)



3. Properties of Line of Symmetry

- i. It divides a shape into two identical halves
- ii. A shape may have one, many, or infinite lines of symmetry
- iii. The more symmetrical a shape is, the more balanced it looks
- iv. The line can be in any direction: vertical, horizontal, or diagonal
- v. Figures with no symmetry are called asymmetrical

4. Common Shapes and Their Lines of Symmetry

Shape	Lines of Symmetry
Square	4
Rectangle	2
Circle	Infinite
Equilateral Triangle	3
Isosceles Triangle	1
Scalene Triangle	0

5. Summary

- A line of symmetry cuts a shape into two equal parts
- The two parts are mirror images
- Shapes like square, triangle, and circle have lines of symmetry
- Can be vertical, horizontal, or diagonal

Example:

Fold a square along its diagonal — both parts match → it is a line of symmetry

