

Symmetry in Shapes

Chapter 4: Shadow Story (Togalu) · Topic 2

Key Concept

When we fold a symmetrical shape exactly in half, both sides match perfectly - this fold line is called the line of symmetry.

Not all shapes are symmetrical - a shape is only symmetrical if there is at least one way to fold it so both halves match exactly.

Many things in nature and around us show symmetry, like butterfly wings, human faces (roughly), and many flowers.

Some shapes, like a circle, have many lines of symmetry (any line through the centre), while others, like a square, have exactly 4 lines of symmetry.

Quick Revision Notes

- A symmetrical shape can be divided into two matching halves.
- The fold line is called the line of symmetry.
- Not all shapes are symmetrical.
- A shape is symmetrical if folding it makes both halves match.
- Butterfly wings show symmetry.
- Flowers often show symmetry.
- A circle has many lines of symmetry.
- A square has exactly 4 lines of symmetry.

Practice Questions

- 1 Fold a piece of paper and cut out a symmetrical shape, like a heart.
- 2 Find three symmetrical objects around you.
- 3 Draw a shape and its line of symmetry.
- 4 Check if a square, triangle and circle are symmetrical by folding paper cutouts.
- 5 Find an example of symmetry in nature, like a leaf or flower.
- 6 Draw half a butterfly and complete the symmetrical other half.