

Max's Magnificent Mirror Magic: The Secrets of Symmetry

Step into the mirror world with Max the Monkey—where every shape finds its perfect reflection!

- **What is a line of symmetry?** It is an invisible fold that divides a shape into two identical halves that mirror each other perfectly.
- **Can a shape have more than one line of symmetry?** Yes! A regular polygon, like a square, has four lines of symmetry: two vertical/horizontal and two diagonal.
- **How do I spot a reflection?** Imagine placing a mirror along the line of symmetry; the shape on one side must be exactly the same size and distance from the line as the shape on the other side.
- **Are all shapes symmetrical?** No. Irregular shapes, like a scalene triangle, do not have any lines of symmetry because their sides and angles are all different.
- **How can I check my work?** Use a piece of tracing paper to trace your shape, then flip it over the mirror line to see if it maps perfectly onto itself.

Did you know? Did you know that symmetry is nature's favorite design trick? From the delicate, balanced wings of a butterfly to the complex, repeating patterns found in a snowflake, symmetry helps living things stay stable and strong. Even your own face is nearly symmetrical—try placing a mirror against your nose to see how your reflection completes the picture!

Key vocabulary: Symmetry · Line of symmetry · Reflection · Mirror line · Vertical · Horizontal · Diagonal · Equidistant