



# Different Types of Quadrilaterals Explained Simply

KS2 MATHS

KS3 MATHS

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## What is a Quadrilateral?

A **quadrilateral** is any shape with **four sides** and **four angles**. The word comes from "quad" meaning four, and "lateral" meaning sides. But not all four-sided shapes are the same! Some have special properties that make them stand out.

Think of it like types of dogs—they all have four legs, but a Labrador, a Greyhound, and a Bulldog look very different because of their special features.

## Squares and Rectangles

A **square** is the most perfect quadrilateral. It has **four equal sides** and **four right angles** (90-degree corners). Every corner is a perfect corner, like the edges of a book or a tile on a floor.

A **rectangle** is similar but less strict. It also has **four right angles**, but its sides are not all equal. Instead, it has **two pairs of equal opposite sides**. A rectangle is wider in one direction than the other, like a window or a door.

Think of it like: a square is like a perfectly cut pizza with equal slices, while a rectangle is like a baking tray that's longer than it is wide.

## Parallelograms

A **parallelogram** is trickier! It has **two pairs of parallel sides**, which means opposite sides never meet and always stay the same distance apart. But here's the catch—the angles are NOT right angles. They're slanted, like a leaning ladder.

The important rule is that **opposite sides are equal in length** and **opposite angles are equal**. If you pushed a rectangle over to one side, you'd create a parallelogram.

Think of it like a shopping trolley that's been pushed sideways—it stays a four-sided shape, but it's now tilted instead of upright.

## Trapezoids (or Trapeziums)

A **trapezoid** is the odd one out. It has only **one pair of parallel sides**, not two. This makes it different from all the others. The other two sides are not parallel and can be different lengths.

There's a special type called an **isosceles trapezoid** where the non-parallel sides are equal in length, making it look more balanced.

Think of it like a bridge that's wider at one end than the other—two sides run parallel like railway tracks, but the sides connecting them aren't parallel at all.

### Quick Comparison

All squares are rectangles, and all rectangles are parallelograms, but not every parallelogram is a rectangle! Understanding these differences helps you spot shapes everywhere in the real world—from building architecture to everyday objects around your home.