

Types of Quadrilaterals



Vocabulary Check

Match each word to its meaning.

Perpendicular

Equal

Bisect

Adjacent

Right-angle

Parallel

Interior angle

Diagonal

next to

lines that have the same distance between them and will never meet

a line or plane at an angle of 90° to another line or plane

the same as

a straight line joining two opposite corners of a straight-sided shape, such as a square or rectangle

divide something into two equal parts

an angle of 90°

an angle inside a shape

What Is a Quadrilateral?

a 2D shape

a 4-sided
shape

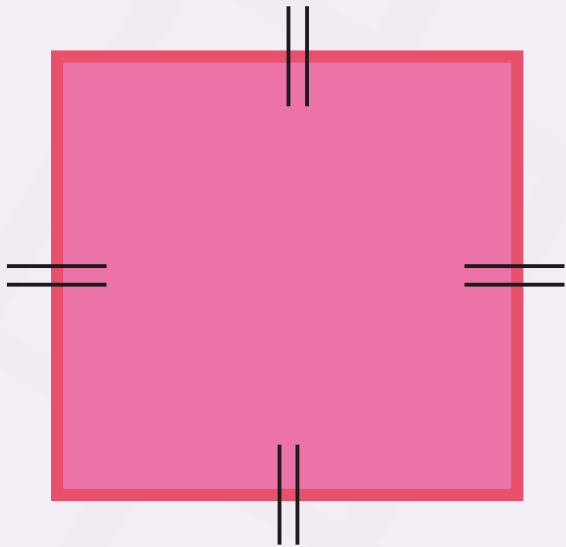


all of its sides
are straight

has 4 interior
angles that
add up to 360°

Square

Do you know what the properties of a square are?



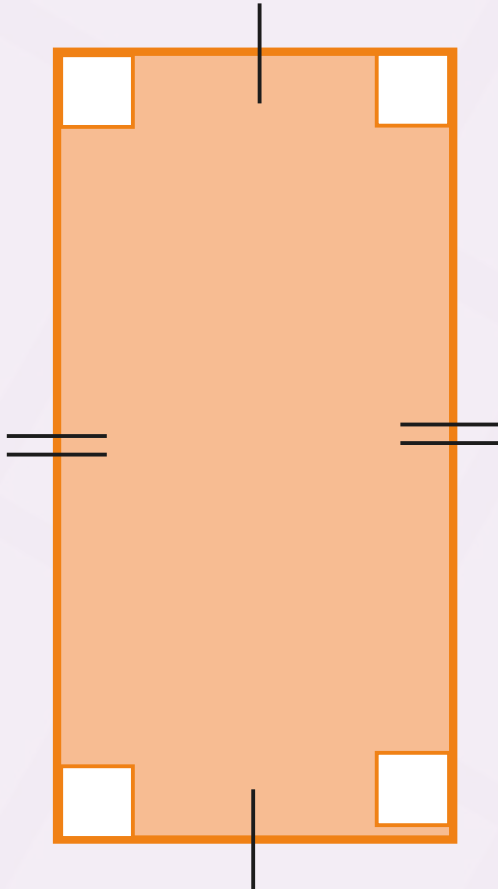
- All sides are of equal length.
- Opposite sides are parallel.
- All interior angles are equal.

If the interior angles of a quadrilateral add up to 360° , what must each interior angle of a square be?

Each angle is a right angle of 90° .

Rectangle

Do you know what the properties of a rectangle are?

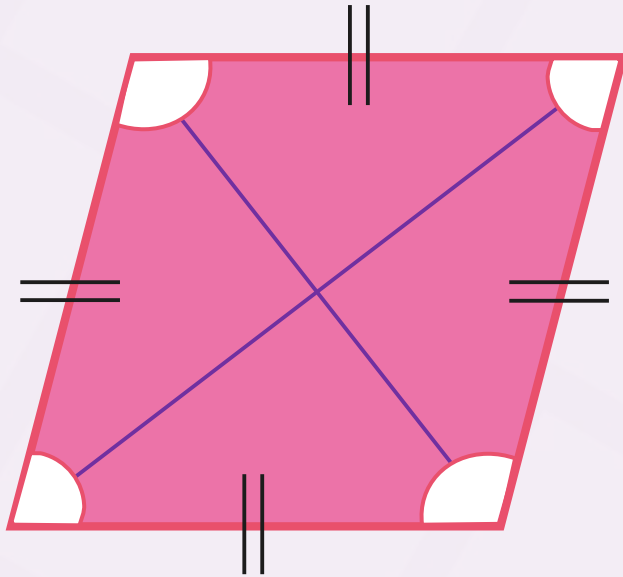


- Opposite sides are parallel and of equal length.
- Every angle is a right angle (90°).

Squares can be classified as rectangles, but not all rectangles can be classified as squares. Can you explain why?

A rectangle has opposite sides of equal length and has four 90° angles. A square has opposite sides of equal length and four 90° angles. However, in a square, all of the sides are of equal length.

Rhombus



Do you know what the properties of a rhombus are?

- All 4 sides are of equal length.
- Diagonally opposite angles are equal.
- 2 angles are acute and 2 are obtuse.
- Opposite sides are parallel.
- Diagonals bisect each other at right angles.

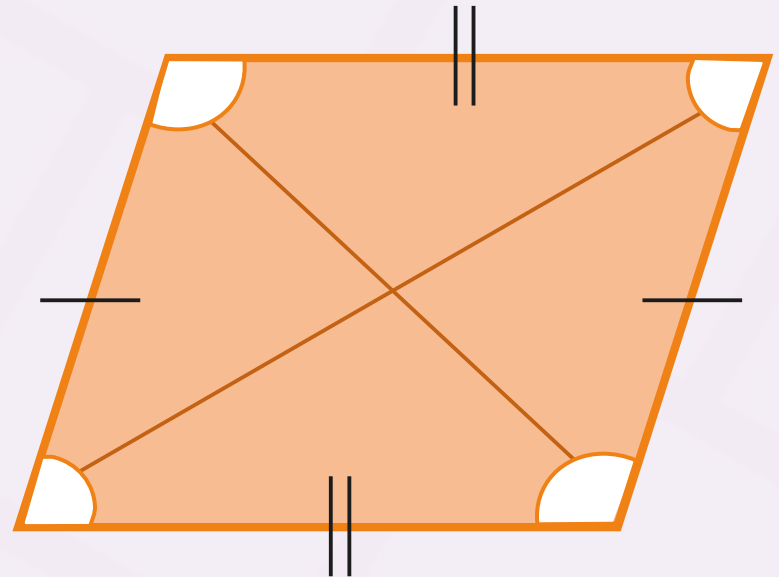
What other name could be given to a rhombus?

A parallelogram.

Parallelogram

Do you know what the properties of a parallelogram are?

- It has 2 pairs of equal parallel sides.
- Diagonally opposite angles are equal.
- 2 angles are acute and 2 are obtuse.



A rhombus is a type of parallelogram. Which property means that not all parallelograms are rhombuses?

In a rhombus, all of the sides are equal.

Trapezium

Do you know what the properties of a trapezium are?

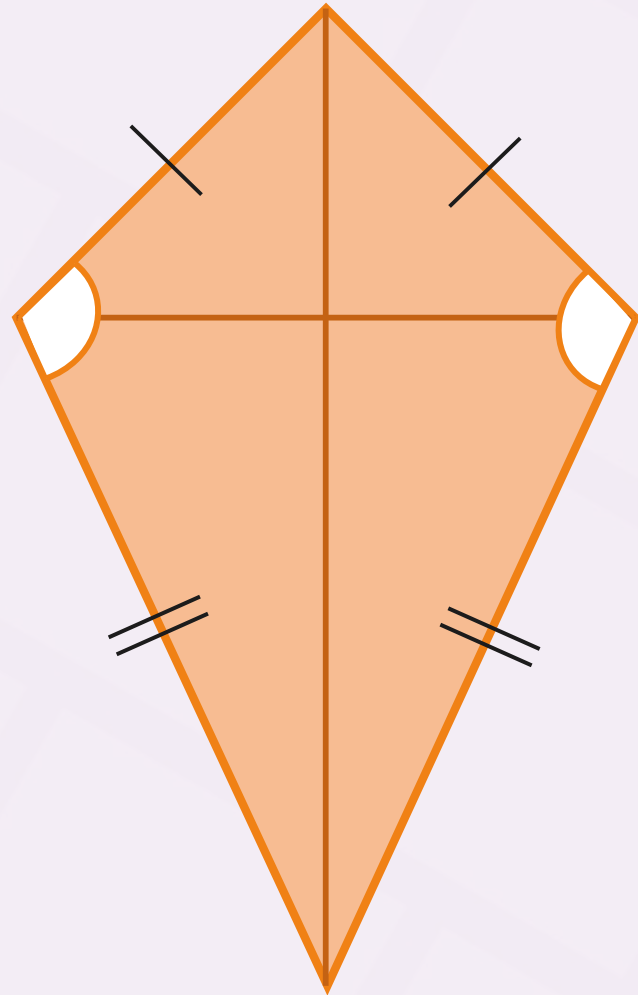


- Has 1 pair of parallel sides.

Kite

Do you know what the properties of a kite are?

- Has 2 pairs of equal, adjacent sides.
- Diagonals bisect each other at right angles.
- 1 pair of opposite angle are equal.



What Am I?

I have 4 right angles but my sides are not all equal. What am I?
angles. what am I?

I am a rectangle.

I am a kite.



