



Parallel and Perpendicular

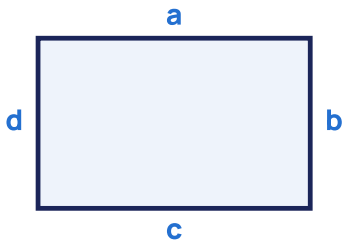


Watch video

MathApex

Name: _____

Date: _____

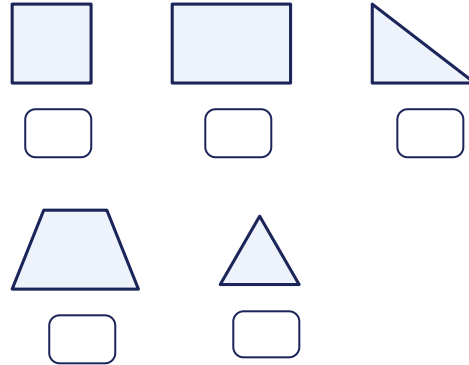
From the videoIn the rectangle, a and c are parallel, b and d are parallel → **2 pairs****1 Now it's your turn!**

How many pairs of parallel sides does a rectangle have?

Parallel sides are the same distance apart everywhere.

 pairsa || and b || **2 Right angles.**

Mark every right angle with a dot. How many are there?

**3 Parallel or perpendicular?**

Write under each picture: parallel, perpendicular or neither.

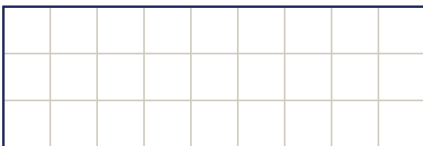
**5 Think backwards.** 270° is quarter turns 180° is quarter turns**4 Quarter turns.**

Turns	1	2	3	4
Degrees	90°			

A half turn is quarter turns

**Brain teaser**

The minute hand of a clock points at the 12 and turns to the 9. How many quarter turns is that, and how many degrees?

6 Draw with a set square.

- a) On the left, draw a right angle.
- b) On the right, draw two parallel lines 2 cm apart.
- c) Draw a line that is perpendicular to one of the two.



Parallel and Perpendicular

**1** Now it's your turn!**2 pairs: a ⊥ c and b ⊥ d**

a and b are perpendicular to each other.

2 Right angles.

square: 4

right-angled triangle: 1

equilateral triangle: 0

rectangle: 4

trapezoid: 0

3 Parallel or perpendicular?

neither perpendicular parallel

4 Quarter turns.

1 → 90°

2 → 180°

3 → 270°

4 → 360°

A half turn = 2 quarter turns = 180°.

5 Think backwards.

270° = 3 quarter turns

180° = 2 quarter turns

★ **Brain teaser****3 quarter turns = 270°****6** Drawing.

Check with a set square: the right angle fits exactly into the corner, parallel lines are the same distance apart everywhere.

For parents and teachers: This worksheet goes with the video "Parallel and Perpendicular" (Math Story 60, Grade 4). Right angles, parallel and perpendicular lines, and turns in quarter turns (90°). The set square is the most important tool.

More Math Stories with video and worksheet: www.mathapex.app/en/math-stories/