Parallel and Perpendicular

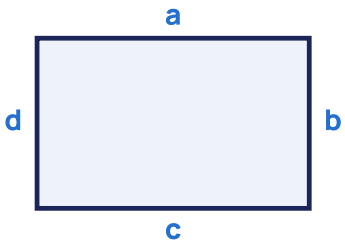
MathApex

Name: _____ Date: _____

Watch video

From the video In 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?

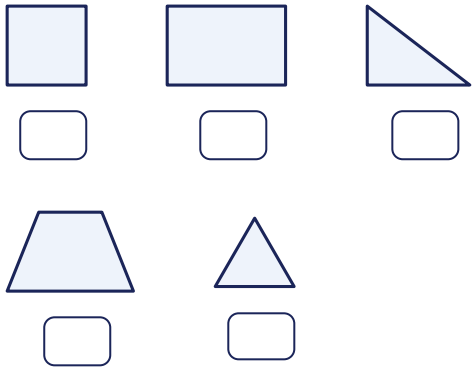
Parallel sides are the same distance apart everywhere.

☐ **pairs**

a ∥ ☐ 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.



_____ _____ _____

4 Quarter turns.

Turns	1	2	3	4
Degrees	90°	☐	☐	☐

A half turn is ☐ **quarter turns**

5 Think backwards.

270° is ☐ **quarter turns**

180° is ☐ **quarter turns**

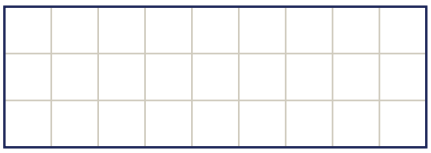
Brain teaser

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.

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MATH STORY 60 · ANSWERS

Parallel and Perpendicular

Watch video

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
rectangle: 4
right-angled triangle: 1
trapezoid: 0
equilateral triangle: 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/**