Quarter Turns

MathApex

Name: _____ Date: _____

Watch video

From the video 2 quarter turns → **2 × 90 = 180°**

1 Now it's your turn!



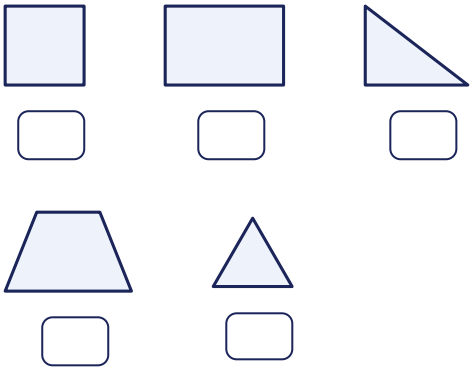
The pointer makes 3 quarter turns. How many degrees is that?

A quarter turn is 90 degrees.

3 × 90 = ☐ °

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.

360° is ☐ quarter turns

180° is ☐ quarter turns

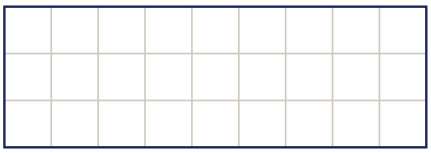
Brain teaser

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.

MathApex

MATH STORY 88 · ANSWERS

Quarter Turns

Watch video

1 Now it's your turn!

3 × 90 = 270°

2 Right angles.

square: 4
rectangle: 4
right-angled triangle: 1
trapezoid: 0
equilateral triangle: 0

3 Parallel or perpendicular?

neither parallel neither

4 Quarter turns.

1 → 90° 2 → 180° 3 → 270° 4 → 360°

A half turn = 2 quarter turns = 180°.

5 Think backwards.

360° = 4 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 "Quarter Turns" (Math Story 88, 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/**