

Grade 4 - Measuring and Drawing Angles - Worksheet

Common Core 4.MD.C.5, 4.MD.C.6, 4.MD.C.7 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

These 20 problems practice angles as turns, the one-degree angle, reading a protractor, sketching angles, and adding or subtracting angles to find an unknown. They match Common Core 4.MD.C.5, 4.MD.C.6, and 4.MD.C.7.

The last six problems are word problems about a door, a robot, a picture frame, and sprinklers. Write the degree sign with every angle.

Grade 4 · Common Core State Standards: **4.MD.C.5, 4.MD.C.6, 4.MD.C.7**

Exercise 1 - Full turn

How many degrees are in a full turn around a circle?

Exercise 2 - Half turn

How many degrees are in a half turn?

Exercise 3 - Quarter turn

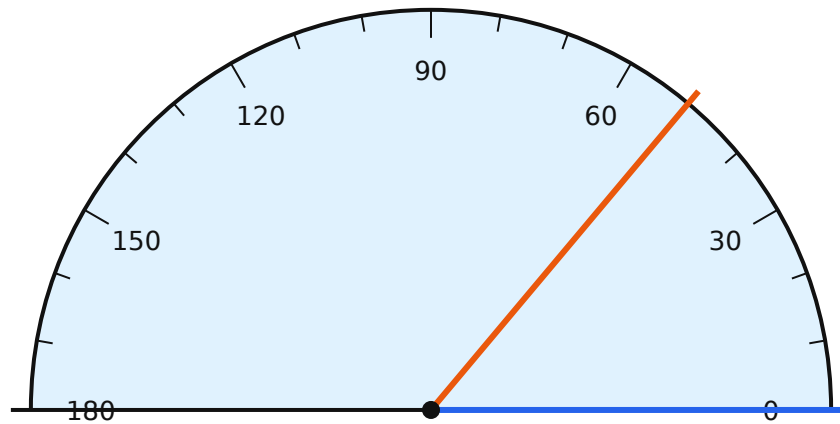
How many degrees are in a quarter turn?

Exercise 4 - Three-quarter turn

How many degrees are in a three-quarter turn?

Exercise 5 - Read the protractor

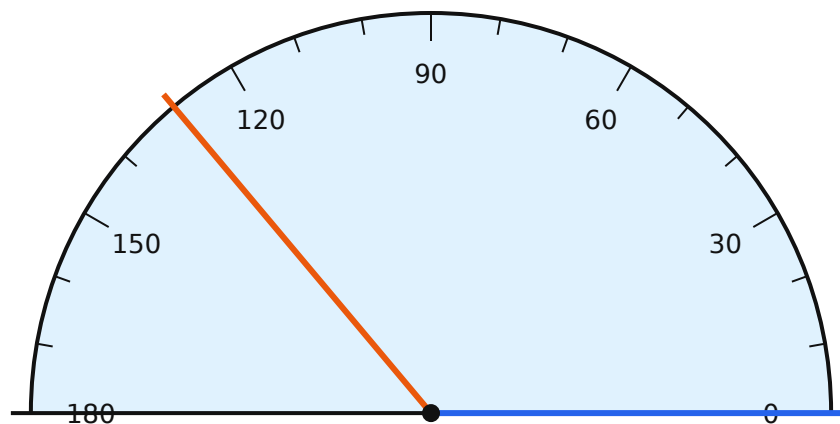
Read the measure of the angle.



Read the scale from 0.

Exercise 6 - A wider angle

Read the measure of the angle.



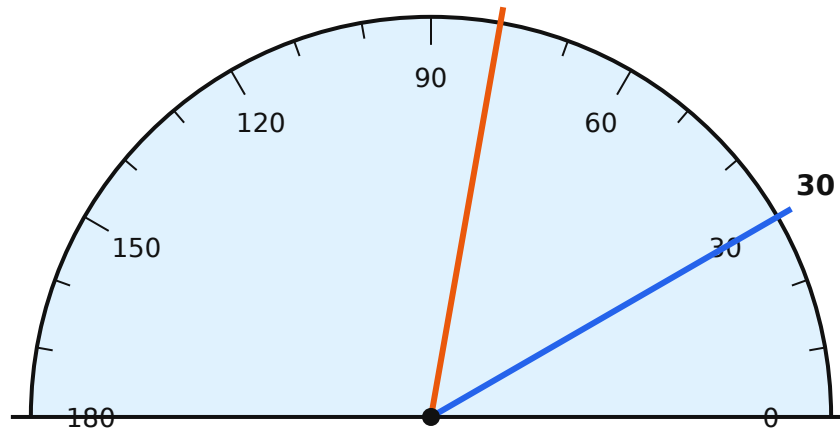
Read the scale from 0.

Exercise 7 - Classify angles

Write *acute*, *right*, or *obtuse* for each angle: 35° , 90° , 120° , 72° .

Exercise 8 - Angle between two rays

Two rays cross the protractor scale at 30° and 80° . Find the measure of the angle between them.



Both rays start at the center.

Exercise 9 - Sketch a 45° angle

Use a protractor to sketch an angle that measures 45° . Label the vertex.

Exercise 10 - Sketch a 120° angle

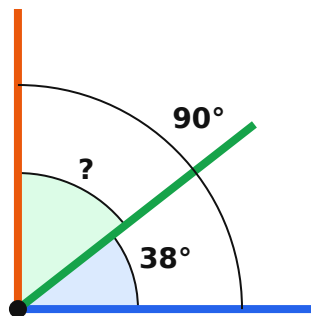
Use a protractor to sketch an angle that measures 120° .

Exercise 11 - Add two angles

Two angles share a ray and do not overlap. One measures 40° and the other measures 25° . Find the measure of the combined angle.

Exercise 12 - Unknown angle in a right angle

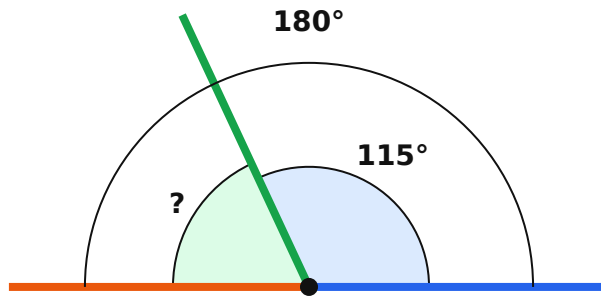
A right angle is split into two angles. One measures 38° . Find the other.



Parts add to 90° .

Exercise 13 - Unknown angle on a line

Two angles sit together on a straight line. One measures 115° . Find the other.



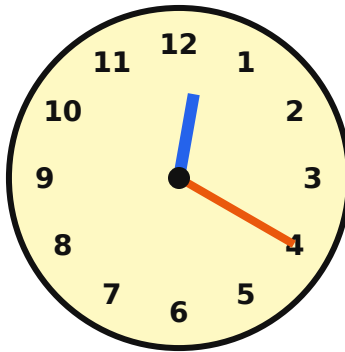
A straight line is 180° .

Exercise 14 - Three parts

A big angle is made of three smaller angles that measure 30° , 45° , and 25° . Find the big angle.

Exercise 15 - Clock hands

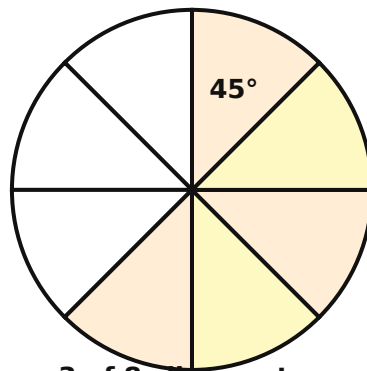
The minute hand of a clock starts at 12 and moves to the 4. Each number on a clock is 30° from the next. How many degrees does the minute hand turn?



Minute hand at 4.

Exercise 16 - Pizza slices

Maya's pizza is cut into 8 equal slices. Each slice has an angle of 45° at the center. Maya eats 3 slices. What is the total angle of the slices she ate?



3 of 8 slices eaten

A pizza with 8 equal slices.

Exercise 17 - Opening a door

Jamal pushes a door open by 70° . Then he pushes it another 35° . What is the total angle the door has opened? Is it acute or obtuse?

Exercise 18 - Turning a robot

Ethan faces north. He turns his robot a quarter turn clockwise, then another 45° . How many degrees has the robot turned? How many more degrees would make a half turn?

Exercise 19 - Picture frame brace

A corner of Priya's frame is a right angle. A brace splits it into 37° and an unknown angle. A second brace splits the unknown angle into 20° and another unknown angle. Find both unknown angles.

Exercise 20 - Sprinklers

Diego has two sprinklers that together should water a full circle. Sprinkler A sweeps through 210° . How many degrees must sprinkler B sweep? If B sweeps only 90° , how many degrees are left dry?