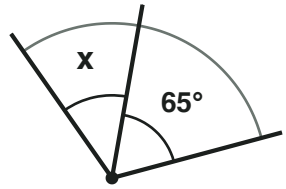
# Find the Missing Angle

Name: _____

Grade 4 · Use the whole angle to find a missing part

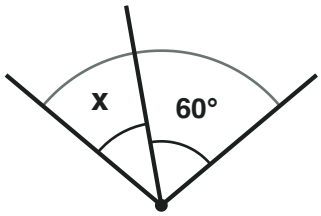
### How it works




The parts add up to the whole, so **subtract** the part you know from the whole angle.
The whole angle is 110° and one part is 65°, so x = 110° − 65° = **45°**.
A square corner is 90°. A straight line is 180°.

## A. Find the angle marked x.

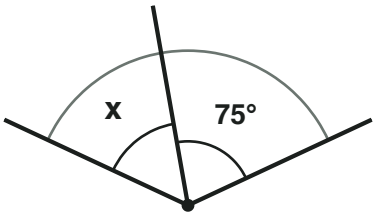
**1.**




**Whole angle: 100°**

**x = _____ °**

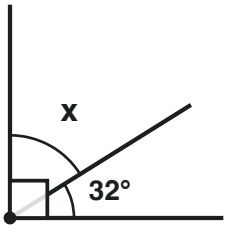
**2.**




**Whole angle: 130°**

**x = _____ °**

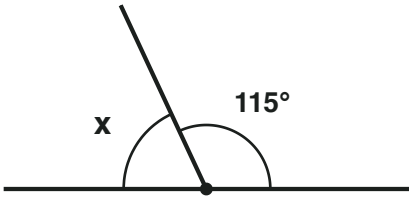
**3.**




**Whole angle: square corner, 90°**

**x = _____ °**

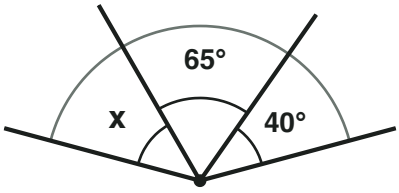
**4.**




**Whole angle: straight line, 180°**

**x = _____ °**

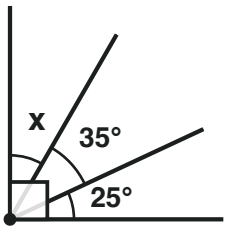
**5.**




**Whole angle: 150°**

**x = _____ °**

**6.**




**Whole angle: square corner, 90°**

**x = _____ °**

## B. Solve these angle stories.

**1.** A door can open until it makes a 90° angle with the wall. It is open 55° now. How many more degrees can it open? _____ °

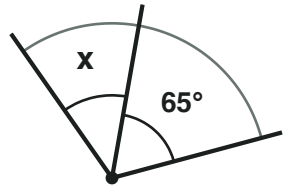
**2.** Two angles side by side make a straight line. One angle is 128°. How big is the other angle? _____ °

**3.** A slice of pizza has a 45° angle at its point. What angle do 3 slices make when they are side by side? _____ °

# Find the Missing Angle (Answer Key)

Grade 4 · Use the whole angle to find a missing part

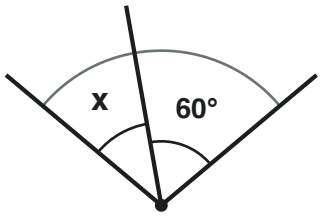
### How it works




The parts add up to the whole, so **subtract** the part you know from the whole angle.
The whole angle is 110° and one part is 65°, so x = 110° − 65° = **45°**.
A square corner is 90°. A straight line is 180°.

## A. Find the angle marked x.

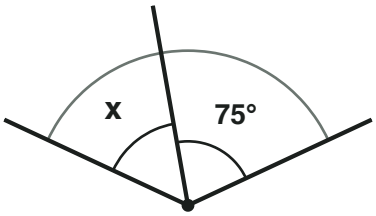
**1.**




**Whole angle: 100°**

**x =** 40 **°**

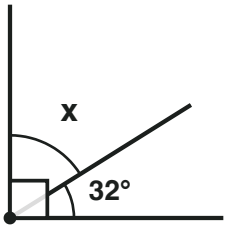
**2.**




**Whole angle: 130°**

**x =** 55 **°**

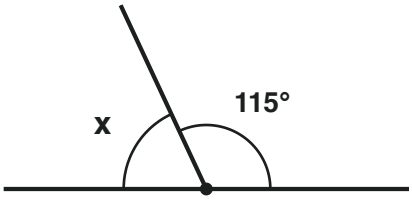
**3.**




**Whole angle: square corner, 90°**

**x =** 58 **°**

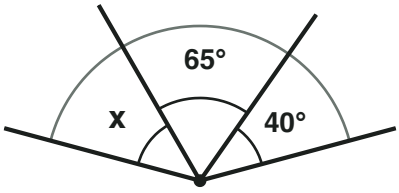
**4.**




**Whole angle: straight line, 180°**

**x =** 65 **°**

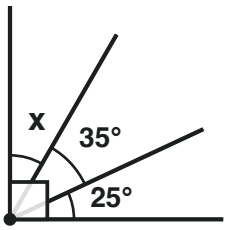
**5.**




**Whole angle: 150°**

**x =** 45 **°**

**6.**




**Whole angle: square corner, 90°**

**x =** 30 **°**

## B. Solve these angle stories.

**1.** A door can open until it makes a 90° angle with the wall. It is open 55° now. How many more degrees can it open?

**35 °**

**2.** Two angles side by side make a straight line. One angle is 128°. How big is the other angle?

**52 °**

**3.** A slice of pizza has a 45° angle at its point. What angle do 3 slices make when they are side by side?

**135 °**