

# Grade 4 - Measuring and Drawing Angles - Quiz

Common Core 4.MD.C.5, 4.MD.C.6, 4.MD.C.7 · [maths-pdf.fr/en/](https://maths-pdf.fr/en/)

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Try this 10-question quiz on measuring and drawing angles. Choose the best answer. Some questions use a protractor, a pizza, or a diagram. The explanations show common mistakes, like reading the wrong scale or forgetting the 180 degrees on a line.

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

## Questions

### Question 1

How many degrees are in a half turn?

- A.  $180^\circ$
- B.  $90^\circ$
- C.  $360^\circ$
- D.  $270^\circ$

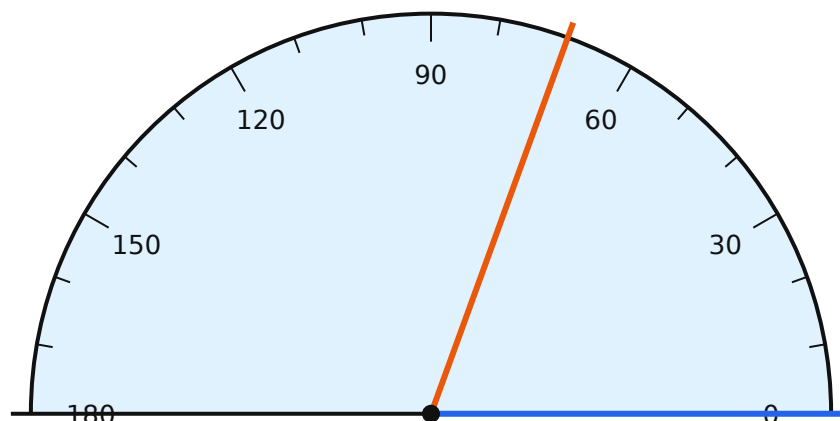
### Question 2

A one-degree angle is what fraction of a full circle?

- A.  $\frac{1}{100}$
- B.  $\frac{1}{360}$
- C.  $\frac{1}{180}$
- D.  $\frac{1}{90}$

### Question 3

Read the protractor. What is the measure of the angle?

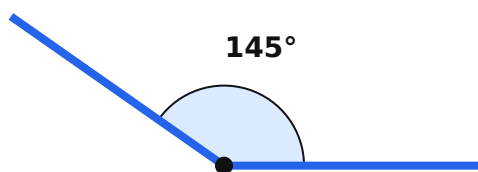


Read from 0.

- A.  $70^\circ$
- B.  $110^\circ$
- C.  $20^\circ$
- D.  $80^\circ$

#### Question 4

What kind of angle is this one?



An angle of  $145^\circ$ .

- A. Acute
- B. Obtuse
- C. Right
- D. Straight

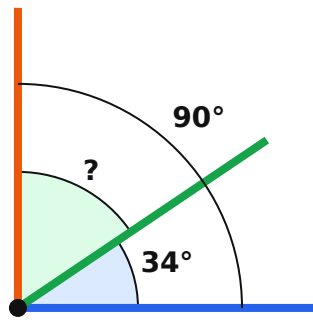
#### Question 5

Two side-by-side angles measure  $48^\circ$  and  $37^\circ$ . What is the combined angle?

- A.  $85^\circ$
- B.  $11^\circ$
- C.  $75^\circ$
- D.  $95^\circ$

#### Question 6

A right angle is split into two angles. One is  $34^\circ$ . What is the other?



Parts add to  $90^\circ$ .

- A.  $124^\circ$
- B.  $66^\circ$
- C.  $46^\circ$
- D.  $56^\circ$

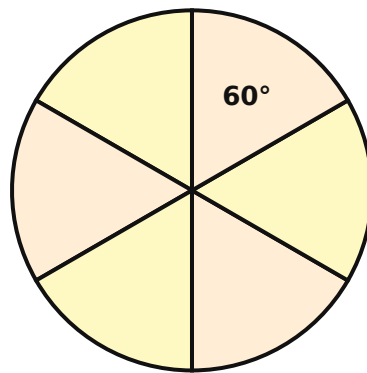
### Question 7

Two angles sit on a straight line. One is  $125^\circ$ . What is the other?

- A.  $65^\circ$
- B.  $305^\circ$
- C.  $55^\circ$
- D.  $45^\circ$

### Question 8

A pizza is cut into 6 equal slices. What is the angle of one slice?



A pizza with 6 equal slices.

- A.  $30^\circ$
- B.  $6^\circ$
- C.  $120^\circ$
- D.  $60^\circ$

### Question 9

The minute hand moves from 12 to 9. Each number on a clock is  $30^\circ$  from the next. How many degrees did it turn?

- A.  $90^\circ$
- B.  $270^\circ$
- C.  $180^\circ$
- D.  $360^\circ$

### Question 10

Which measure could be an obtuse angle?

- A.  $90^\circ$
- B.  $38^\circ$
- C.  $112^\circ$
- D.  $180^\circ$

## Answers

1. **A** – A full turn is  $360^\circ$ , so half of it is  $180^\circ$ . A quarter turn is  $90^\circ$ .
2. **B** – A circle has 360 one-degree slices, so one degree is  $1/360$  of the circle.
3. **A** – One ray is on zero, so use the scale that starts at 0 there. The other ray crosses 70. The 110 is on the other scale.
4. **B** –  $145^\circ$  is greater than  $90^\circ$  and less than  $180^\circ$ , so it is obtuse.
5. **A** – Add the parts:  $48 + 37 = 85$ . Subtracting gives 11, which is not what the question asks.
6. **D** – A right angle is  $90^\circ$ , so  $90 - 34 = 56$ . Adding  $90 + 34 = 124$  is a common slip.
7. **C** – A straight line is  $180^\circ$ , so  $180 - 125 = 55$ . Using 90 instead of 180 gives a wrong answer.
8. **D** – A full circle is  $360^\circ$ , and  $360 \div 6 = 60$ . Dividing by 12 would give 30.
9. **B** – From 12 to 9 is 9 numbers:  $9 \times 30 = 270$ . It is a three-quarter turn.
10. **C** – An obtuse angle is greater than  $90^\circ$  and less than  $180^\circ$ .  $90^\circ$  is right, and  $180^\circ$  is a straight angle.

## Remember

- An angle has two rays and one shared endpoint called the vertex.
- A full circle is 360 degrees, a half turn is 180 degrees, and a quarter turn is 90 degrees.
- A one-degree angle turns through  $1/360$  of a circle.
- Acute angles are less than 90 degrees, right angles are exactly 90 degrees, and obtuse angles are greater than 90 degrees.
- If an angle is split into parts, the whole angle is the sum of the parts.