

Grade 6 · Integers, Opposites and Absolute Value · Quiz

Common Core 6.NS.C.5, 6.NS.C.6a, 6.NS.C.7 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This 10-question multiple-choice quiz checks integer skills from Common Core 6.NS.C.5, 6.NS.C.6a, and 6.NS.C.7. Choose one answer for each question. The explanation after each question shows the right reasoning and the usual sign mistake.

Grade 6 Common Core: 6.NS.C.5 · 6.NS.C.6a · 6.NS.C.7

Questions

Question 1

Which integer represents a loss of 15 yards in a football game?

- A. 15
- B. 0
- C. -15
- D. -5

Question 2

What is the opposite of -8 ?

- A. -8
- B. 0
- C. $-\frac{1}{8}$
- D. 8

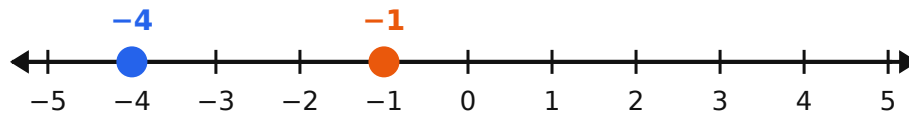
Question 3

What is $|-12|$?

- A. -12
- B. 0
- C. 24
- D. 12

Question 4

Which inequality is true?



Two points on a number line.

- A. $-4 < -1$
- B. $-4 > -1$
- C. $-1 < -4$
- D. $4 < -1$

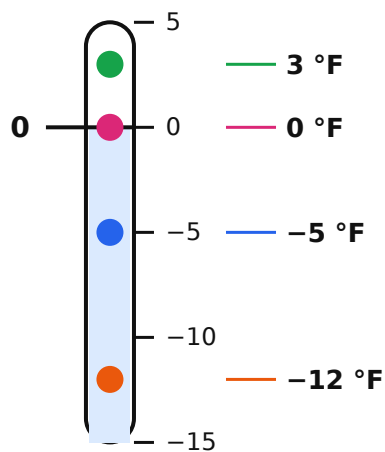
Question 5

Which list is in order from least to greatest?

- A. $-4, -9, 0, 5$
- B. $5, 0, -4, -9$
- C. $0, -4, -9, 5$
- D. $-9, -4, 0, 5$

Question 6

The low temperatures on four winter days were -5°F , 3°F , -12°F , and 0°F . Which temperature was the coldest?



Four low temperatures.

- A. -5°F
- B. 0°F
- C. -12°F
- D. 3°F

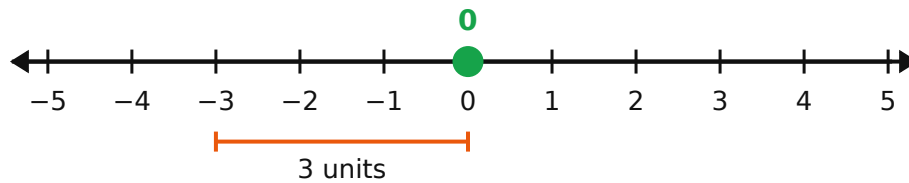
Question 7

Which number has the greatest absolute value?

- A. 10
- B. -15
- C. -7
- D. 12

Question 8

Which number is 3 units to the left of 0 on a number line?

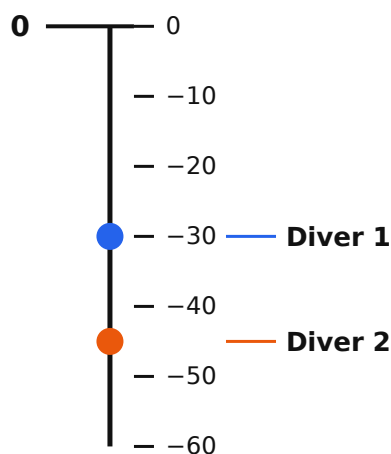


Move 3 units to the left of 0.

- A. 3
- B. -0.3
- C. -3
- D. 0

Question 9

Diver 1 is at -30 feet and Diver 2 is at -45 feet. Which statement is true?



Depths of two divers.

- A. Diver 2 is deeper, since $-45 < -30$.
- B. Diver 1 is deeper, since $-30 > -45$.

- C. Diver 2 is higher, since $45 > 30$.
- D. Both divers are at the same depth.

Question 10

What is the opposite of 2.5?

- A. 2.5
- B. -2.5
- C. -0.25
- D. -25

Answer key

1. **C** - A loss is a decrease, so it is negative: -15 . The number 15 would represent a gain.
2. **D** - Opposites are the same distance from 0 on different sides, so the opposite of -8 is 8. Repeating the same number is a common mistake.
3. **D** - Absolute value is distance from 0, and -12 is 12 units from 0. A distance is never negative.
4. **A** - -4 is to the left of -1 on a number line, so $-4 < -1$. Treating 4 as greater than 1 leads to the reversed statement.
5. **D** - Order the numbers from left to right on the number line: -9 , then -4 , then 0, then 5. The second list puts -4 before -9 , which orders the negatives by absolute value.
6. **C** - The coldest temperature is the least number, which is -12 . It is farthest below zero.
7. **B** - $|-15|=15$, $|10|=10$, $|-7|=7$, and $|12|=12$. Ignoring the negative sign gives 15, which is the greatest.
8. **C** - Moving left from 0 gives negative numbers, so 3 units left is -3 . Moving 3 units right would give 3.
9. **A** - The lesser elevation is farther below sea level. Since $-45 < -30$, Diver 2 is deeper. The statement $-30 > -45$ is true, but it means Diver 1 is higher.
10. **B** - The opposite of 2.5 is -2.5 , the same distance from 0 on the other side. Moving the decimal point changes the size, not the sign.

Remember:

- Positive numbers are greater than 0 and negative numbers are less than 0.
- Opposites are the same distance from 0, and the opposite of 0 is 0.
- On a number line, the number farther to the right is always greater.
- Absolute value is the distance from 0, so it is never negative.
- A negative number with a greater absolute value is the lesser number.