

Grade 6 - Integers and Rational Numbers on the Number Line - Quiz

Common Core 6.NS.C.5, 6.NS.C.6a, 6.NS.C.6c · maths-pdf.fr/en/

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

This quiz has 10 multiple-choice questions on integers, opposites, and rational numbers on the number line (Common Core 6.NS.C.5 and 6.NS.C.6). Pick one answer for each and read the explanation.

Grade 6 · Common Core State Standards: **6.NS.C.5**, **6.NS.C.6a**, **6.NS.C.6c**

Questions

Question 1

Which integer represents a loss of 6 points in a game?

- A. 6
- B. 0
- C. -6
- D. $\frac{1}{6}$

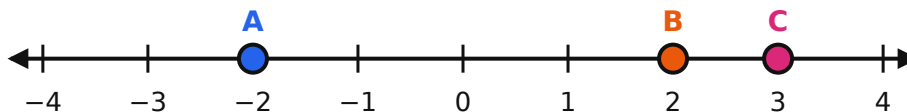
Question 2

What is the opposite of -13 ?

- A. -13
- B. 13
- C. $\frac{1}{13}$
- D. 0

Question 3

Which point is at -2 ?



Points on a number line.

- A. A
- B. B

- C. C
- D. None of them

Question 4

Which number is greater than -3 but less than -1 ?

- A. -4
- B. 0
- C. -1
- D. -2

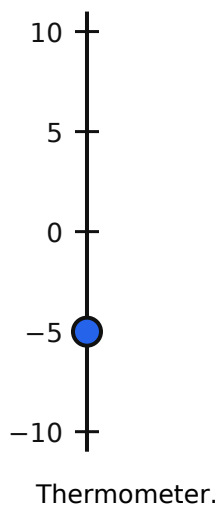
Question 5

Which is the opposite of $\frac{3}{5}$?

- A. $\frac{3}{5}$
- B. $\frac{5}{3}$
- C. $-\frac{3}{5}$
- D. $-\frac{5}{3}$

Question 6

The temperature is -5°F . Where is this on a vertical number line?



- A. Below 0, 5 units down
- B. Above 0, 5 units up
- C. At 0
- D. Below 0, 10 units down

Question 7

Which integer describes "30 feet above sea level"?

- A. -30
- B. 30

- C. 0
- D. $\frac{1}{30}$

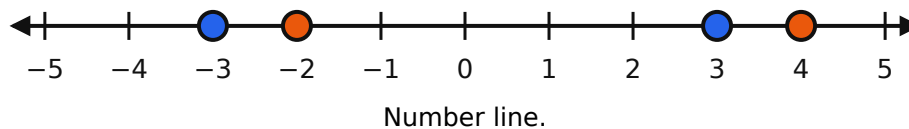
Question 8

Where is -1.5 on a number line?

- A. Halfway between -2 and -1
- B. Halfway between 1 and 2
- C. Between -1 and 0
- D. At -2

Question 9

Which pair are opposites?



- A. -2 and 4
- B. 3 and 4
- C. -3 and 3
- D. -3 and -2

Question 10

Which situation matches the integer -20 ?

- A. A diver is 20 feet above the surface
- B. A diver goes 20 feet below the surface
- C. A diver is at the surface
- D. A diver makes 20 dives

Answers

1. **C** – A loss is the opposite of a gain, so it is negative.
2. **B** – Opposites are the same distance from 0 on opposite sides.
3. **A** – A is 2 units left of 0, so it is -2. B is 2.
4. **D** – -2 lies between -3 and -1. -4 is less than -3.
5. **D** – The opposite changes the sign. The reciprocal is $\frac{5}{3}$.
6. **A** – Negative numbers are below 0 on a vertical number line.
7. **B** – Above sea level is positive.
8. **A** – -1.5 is 1.5 units left of 0.
9. **C** – Opposites are equal distances from 0: -3 and 3.
10. **B** – Negative integers describe amounts below zero or losses.

Remember

- Positive numbers are above zero or to the right; negative numbers are below zero or to the left.
- Opposites are the same distance from 0 on opposite sides.
- The opposite of the opposite of a number is the number itself.
- Integers are whole numbers and their opposites; rational numbers include fractions and decimals.
- A vertical number line, like a thermometer, puts positive numbers on top.