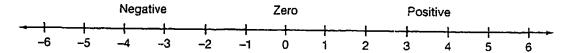




## **SKILL 1:** Integers on the Number Line

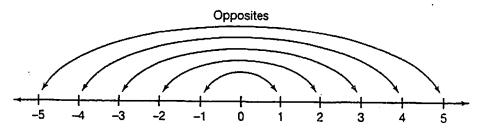
A **positive** number is a number that is greater than 0. The positive numbers 1, 2, 3, and so on, are shown to the right of 0 on the number line. They may be written with or without a "+" symbol. A **negative** number is a number that is less than 0. Negative numbers must be written with a "-" symbol before the numeral. The negative numbers -1, -2, -3, and so on, are shown to the left of 0 on the number line.



The negative number -3 is read *negative* 3; -4 is read *negative* 4, and so on. The number 0 is neither positive nor negative. The number 0, the positive whole numbers  $(1, 2, 3, \ldots)$ , and the corresponding negative numbers  $(-1, -2, -3, \ldots)$  are **integers**.

Two integers on opposite sides of 0 but the same distance from 0 are called **opposites**. For example, the opposite of -9 is 9, and the opposite of 6 is -6. The number 0 is its own opposite.

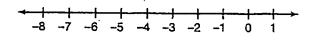




Integers are used for describing gains and losses, temperatures above and below 0°, and many other quantities that are "opposites."

## **Guided Practice**

1. The number -7 is to the left of 0 on the number line,



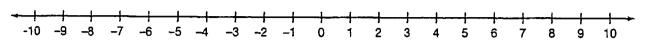
so -7 is a \_\_\_\_ number.

2. The opposite of -7 is the number 7 units to the

\_\_\_\_\_ of 0. So, the opposite of -7 is \_\_\_\_.

## **SKILL 1**: Practice

Think about where each integer is located on the number line. Tell whether the integer is positive, negative, or neither.



- 1. -6 \_\_\_\_\_
- 2. -10 \_\_\_\_\_
- **3.** 50 \_\_\_\_

- 4. 8 \_\_\_\_\_
- 5. -37 \_\_\_\_\_
- **6.** -100 \_\_\_\_\_

- 7. 9
- 8. 43 \_\_\_\_\_
- 9. 250 \_\_\_\_\_

- **10.** -21 \_\_\_\_\_
- **11.** 0 \_\_\_\_\_
- **12.** 1.000 \_\_\_\_\_

Write the opposite of each integer.

- 13. 18 \_\_\_\_\_
- 14. 0 \_\_\_\_\_
- **15.** 160 \_\_\_\_\_

- **16.** -25 \_\_\_\_\_
- **17.** –48 \_\_\_\_\_
- **18.** -83 \_\_\_\_\_

- **19.** -16
- **20.** –2 \_\_\_\_\_
- **21.** -76 \_\_\_\_\_

- **22.** -5 \_
- 23. 11 \_\_\_ \_
- **24.** -125 \_\_\_\_\_

Write the integer that best describes each situation.

- 25. 35 ft below sea level \_\_\_\_\_
- 26. 78°F above zero \_\_\_\_\_

27. A gain of \$60 \_\_\_\_\_

28. A debt of \$20 \_\_\_\_

29. 8-yard loss \_\_\_\_\_

- **30.** \$80 profit \_\_\_\_\_
- 31. 3 seconds before lift-off \_\_\_\_\_
- 32. 7 steps backward \_\_\_\_\_



33. Which integer is the opposite of -12?

- Skill 1
- C 12
- D 21

34. Which integer is neither positive nor negative?

Skill 1

- F -1
- H 1
- **G** 0
- J 10

A - 21

B - 12