

**Lesson 4.2** Integer Values in Real Life

Integers can be used to describe real-life situations.

A driver is going 15 miles per hour below the speed limit. The integer  $-15$  can describe this situation. The negative sign shows that the speed is less than the speed limit.

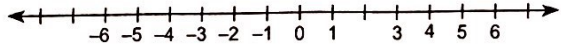
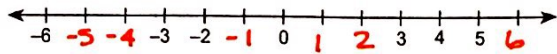
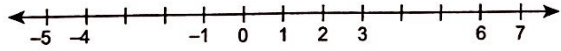
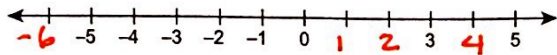
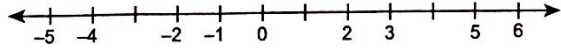
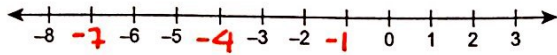
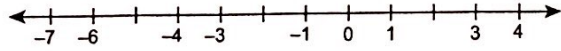
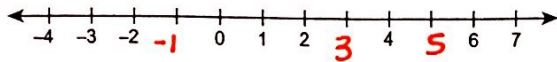
Use integers to represent each real-life situation.

- | a   | b   |
|---|---|
| 1. 45 feet below sea level <u>-45</u>               | a gain of 8 yards on a play _____           |
| 2. \$528 deposit into a checking account <u>528</u> | 62° above zero _____                        |
| 3. stock market increases of 345 points <u>345</u>  | an 8-pound weight loss _____                |
| 4. 7,500 feet above sea level <u>7,500</u>          | withdrawal of \$80 from an ATM _____        |
| 5. a 10-pound weight gain <u>10</u>                 | stock market decrease of 250 points _____   |
| 6. 3 units to the right on a number line <u>3</u>   | 8 units to the left on a number line _____  |
| 7. 10 units to the left on a number line <u>-10</u> | 7 units to the right on a number line _____ |
| 8. \$60 deposit into a savings account <u>60</u>    | withdrawal of \$95 from an ATM _____        |
| 9. stock market decrease of 97 points <u>-97</u>    | 34° below zero _____                        |
| 10. 100 feet below sea level <u>-100</u>            | a gain of 15 yards on a play _____          |
| 11. a 25-pound weight loss <u>-25</u>               | stock market increase of 390 points _____   |
| 12. 95° above zero <u>95</u>                        | 6,000 feet above sea level _____            |

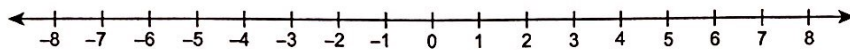
# GRAPHING INTEGERS ON A NUMBER LINE

## SKILLS

Write in the missing integers of the number line.



List the integers by referring to the number line.



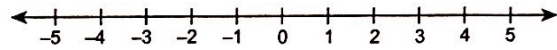
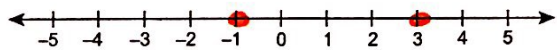
The integers between 0 and 4 are positive. The integers between -1 and -4 are \_\_\_\_\_.

The integers between 3 and 6 are positive. The integers between -2 and -5 are \_\_\_\_\_.

The integers between -5 and -8 are negative. The integers between 5 and 8 are \_\_\_\_\_.

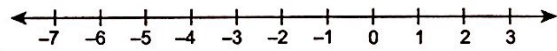
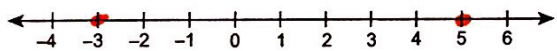
The integers between -3 and -7 are negative.

Graph the integers.



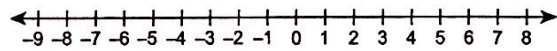
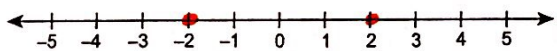
Graph -1 and 3.

Graph 1 and 4.



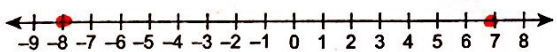
Graph -3 and 5.

Graph -6 and -2.



Graph -2 and 2.

Graph -7 and 6.



Graph -8 and 7.

## PROBLEM SOLVING

Graph each described integer on the number line. What word is spelled?

E: 20 feet above sea level

A: A loss of 2 dollars

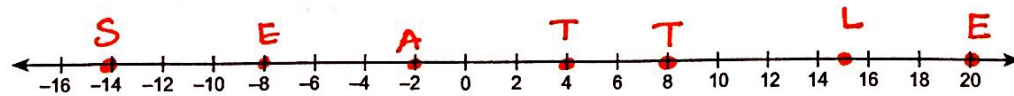
T: A profit of 8 dollars

T: Grew 4 inches

L: Deposit 15 dollars

E: 8° below zero

S: 14 feet below sea level



When read from left to right, the letters spell the word "SEATTLE."

INTEGERS

Integers