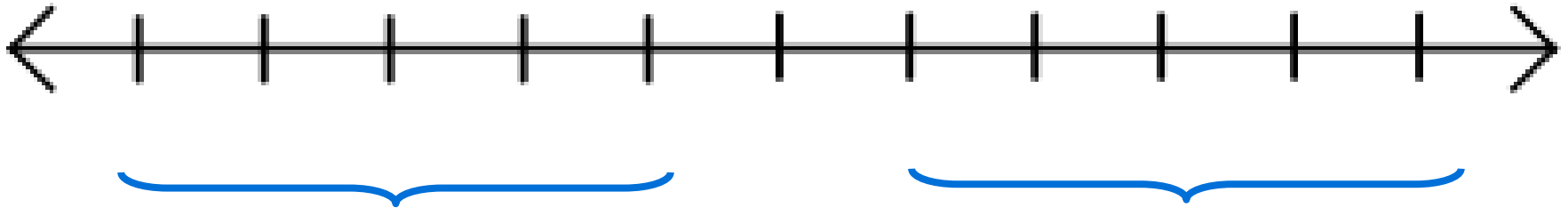


6.1

Integers

Integers on a Number Line

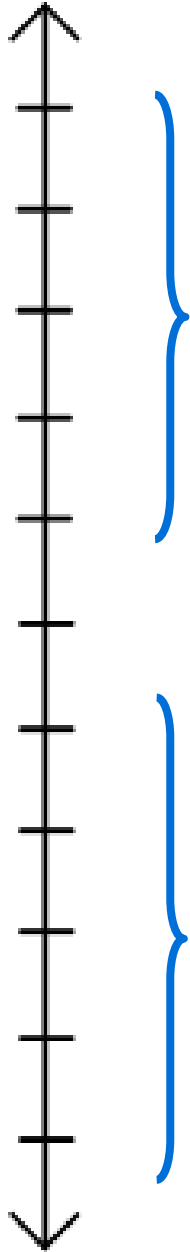


Positive Numbers – Numbers _____. They can be written with or without a _____.

Negative Numbers – Numbers _____. They are _____ written with a _____.

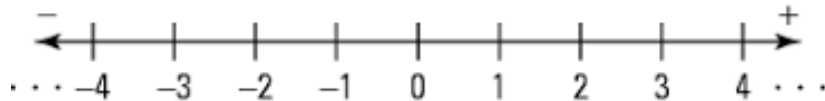
Zero is neither positive or negative. It is _____.

Vertical Number Line



What's an Integer?

Integers	Not Integers

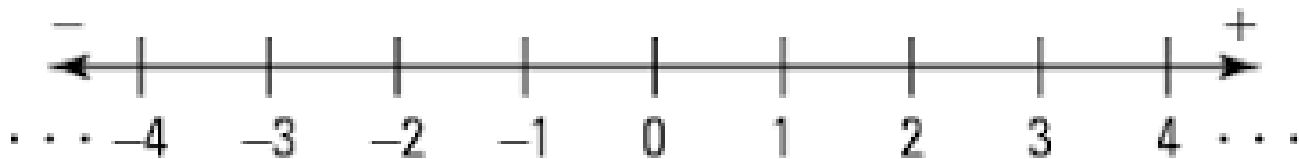


Opposites – Numbers the _____ .

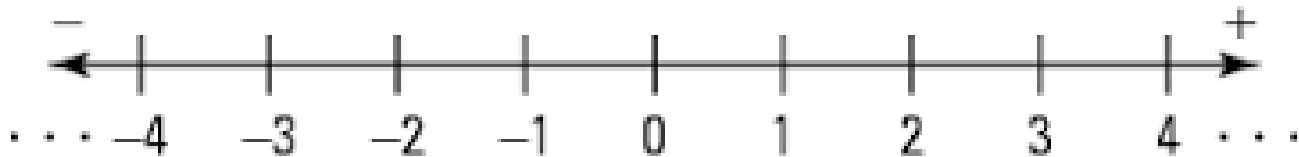
Practice

Graph each integer and its opposite.

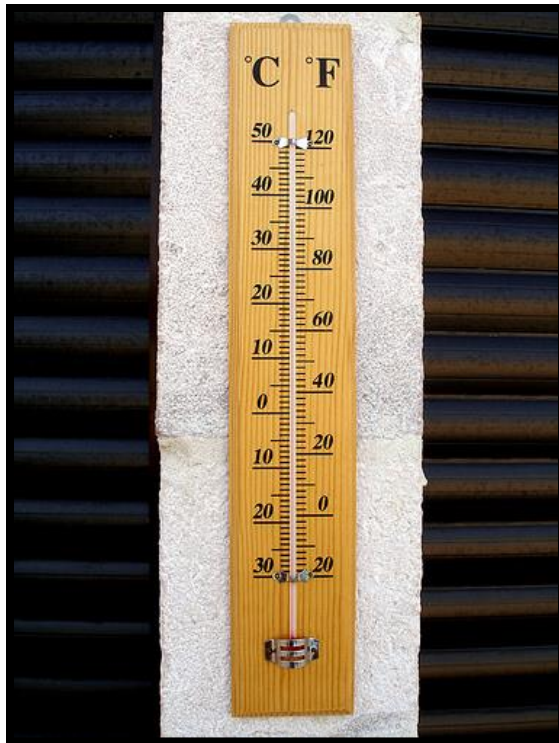
a. 3



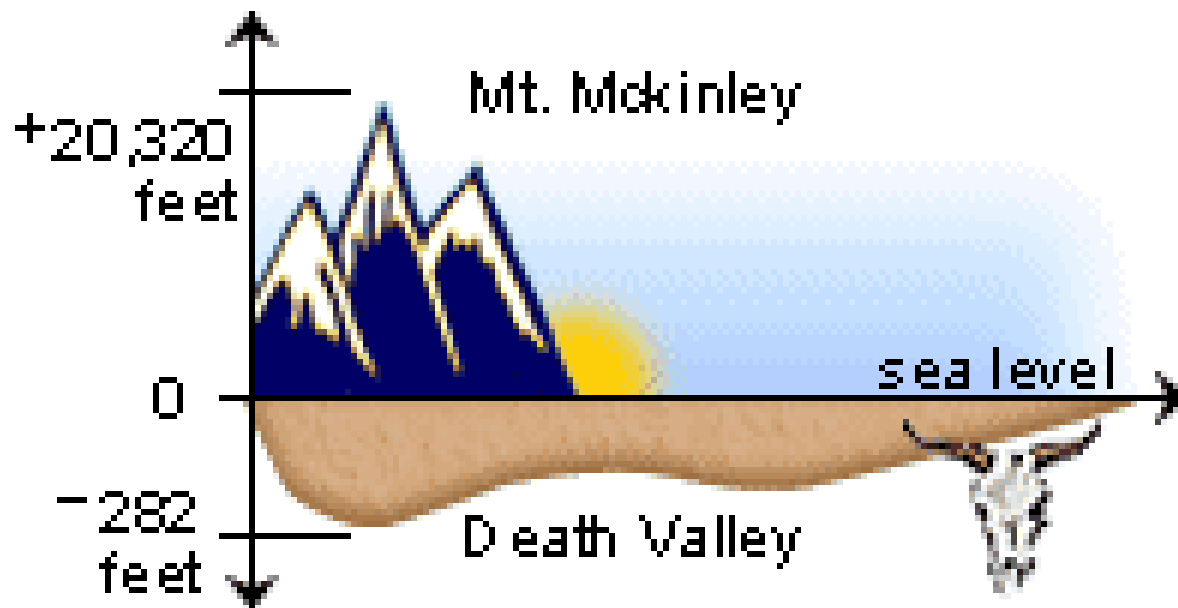
b. -2



Where have you seen integers in real life?



Using Integers



Elevation

20,320 feet above sea level

sea level

282 feet below sea level

Integer

+20,320

0

-282

Using Integers

Write a positive number or negative integers that represents the situation

1) 10 degrees above zero

2) a loss of 16 dollars

3) a gain of 5 points

4) 8 steps backward

Practice

Write a positive or negative integer that represents the situation.

- 1.** A hiker climbs 900 feet up a mountain.
- 2.** You have a debt of \$24.
- 3.** A student loses 5 points for being late to class.
- 4.** A savings account earns \$10.

Application



You deliver flowers to an office building. You enter at ground level and go down 2 floors to make the first delivery. Then you go up 7 floors to make the second delivery.

- a. Write an integer that represents each position.

Position

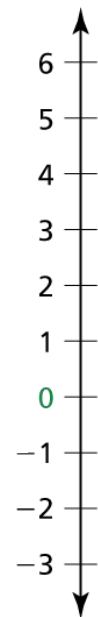
Integer

You enter at ground level.

You go down 2 floors.

You go up 7 floors.

- b. Write an integer that represents how you return to ground level.



Practice

You start a game with 10 points. You gain 4 points in the 1st round. In the 2nd round, you lose 7 points.

- a.** Write an integer that represents each point level.

- b.** After the 3rd round, your total score is 10 points. Write an integer that represents how many points you received in the 3rd round.