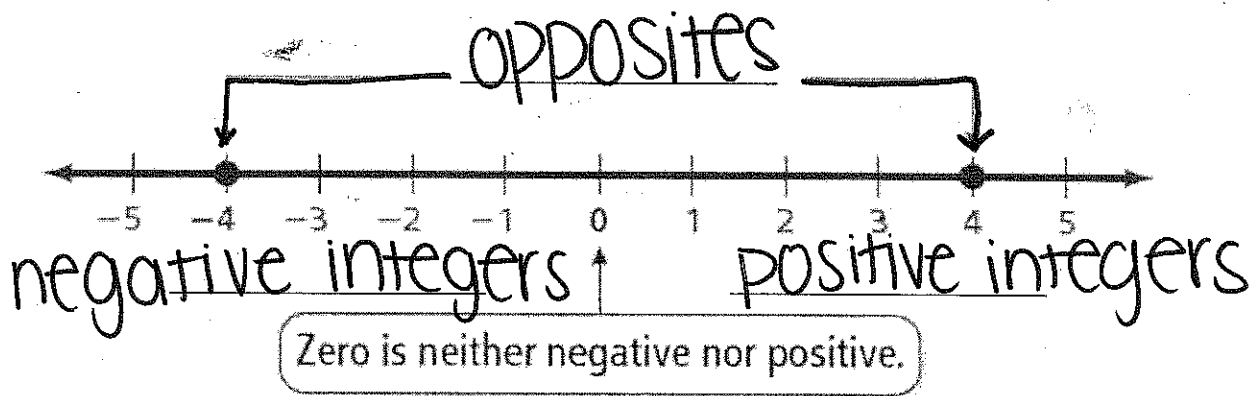


### 6.1 Integers Notes

- Positive numbers are greater than 0. They can be written with or without a positive sign (+). 5, +20, 2,074
- Negative numbers are less than 0. They are written with a negative sign (-). -1, -8, -9, -10, -15, -27
- Two numbers that are the same distance from 0 on the number line, but on opposite sides of 0, are called opposites. The opposite of 0 is 0.

Integers are the set of whole numbers and their opposites.



Write a positive or negative integer that represents the situation.

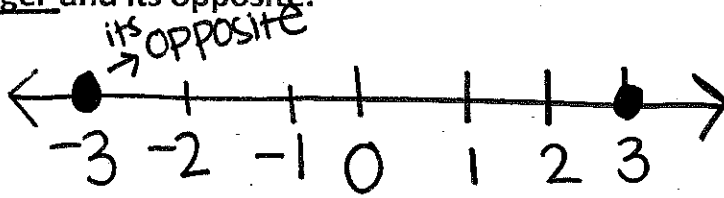
- A contestant gains 250 points on a game show. 250 or +250
- Gasoline freezes at 40 degrees below zero. -40
- A hiker climbs 900 feet up a mountain. 900 or +900
- You have debt of \$24. -24
- A student loses 5 points for being late to class. -5  
*↳ owe money*
- A savings account earns \$10. +10 or 10

# number line

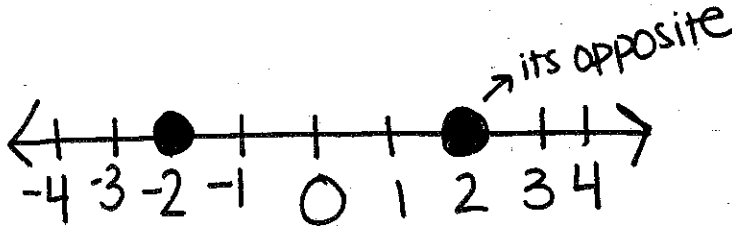
Name: \_\_\_\_\_ Hour: \_\_\_\_\_

Graph each integer and its opposite.

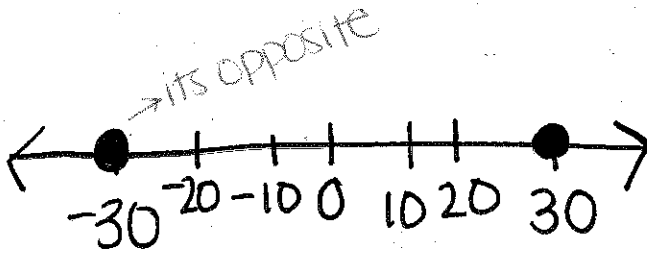
a) 3



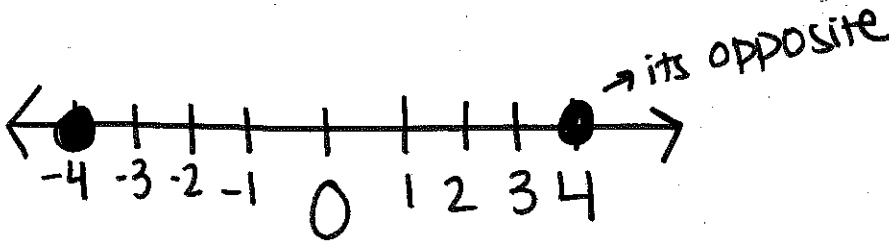
b) -2



c) 30



d) -4



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 integers to represent each position.

enter at ground level = 0

go down 2 floors = -2

go up 7 floors = +7

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

-5

