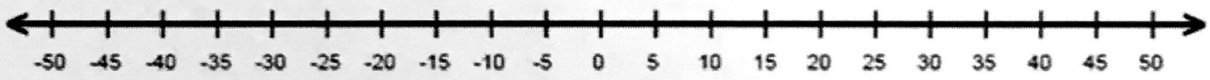
*I can find the **distance** between two numbers **using a number line**.*

The distance between any two points on the number line is the number of units between them.

Find the distance between the points:

1) E and A = 3
2) A and F = 5
3) F and B = 2
4) C and B = 12

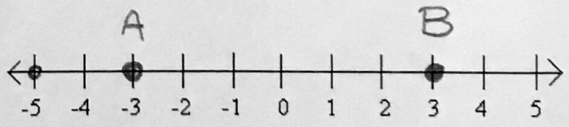
Use the number line below to find the distances between the points:



a) −10 *and* − 35	b) 10 *and* − 20	c) 45 *and* 30
25	30	15
d) 65 *and* 20	**e) −75 *and* 5**	**f) −46 *and* − 10**
45	80	36

Using the Number Line

Mark the point that is three less than zero. Label it A



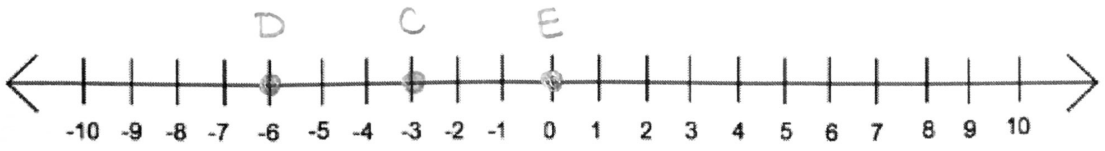
A. What number is 4 more than A?

B. What number is 2 less than A? -5

C. Find the number that is 6 more than A. Label it B. 3

D. What is A − B? -6 (-3-3) What is A + B? 0 What is B − A? 6 (3-(-3))

Using the Number Line



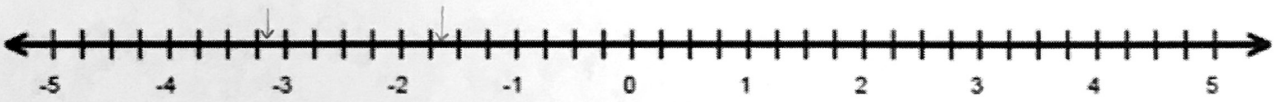
On the number line, find the point that is four less than 1. Label it C.

Find TWO numbers that are 3 away from C. Label them D and E.

What is D? -6 What is E? 0

What is the distance between D and E? 6

Finding the Distance Between Decimals on the Number Line



a) -3.2 *and* -1.7 1.5	b) 2 *and* -4.2 6.2	c) 3 *and* 0.7 2.3
d) 6.2 *and* 1.5 4.7	e) -5.2 *and* -1.2 4	f) -1.0 *and* 2.2 3.2

Conclusion

Besides counting on a number line, how else can you find the distance between two numbers?

Absolute value of two numbers' difference

$|x-y|$