FCTG

Understanding Integers

* Integers are numbers that include _____, _____, and _____ numbers (see the number line below).

* On a <u>number line</u>, _____ numbers are represented on the left of "0", which values are _____ "0"

* _____ numbers on the right of "0", which values are _____ "0"

Integers
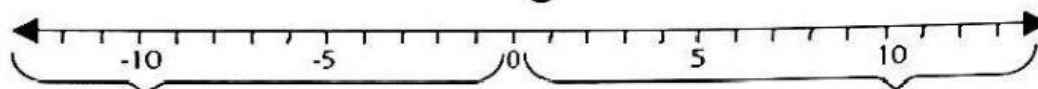
| Negative integers are the opposite of positive integers. | Zero is neither positive nor negative. The opposite of 0 is 0. | Positive integers are also called counting numbers. |

* Integer word clues
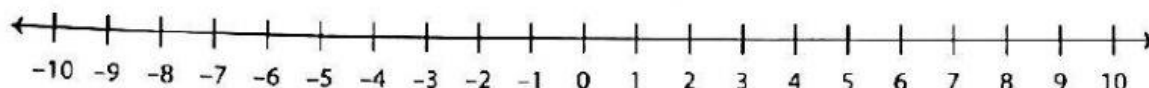
Negative integers	Positive integers

FCTG

DO NOW!

1. Mark the integer on the number line.

  a) –2   b) 7   c) –5   d) 1

```
←--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--→
  -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  0  1  2  3  4  5  6  7  8  9 10
```

2. Which letter best shows –112?

```
←-----A---------89--------B----------------0--------→
```
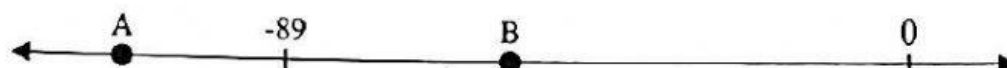
3. Which letter best shows –43?

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←---A-------95---------------B------------0--------→
```

4. Answer the questions using the number line below.

```
←--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--→
  -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  0  1  2  3  4  5  6  7  8  9 10
```
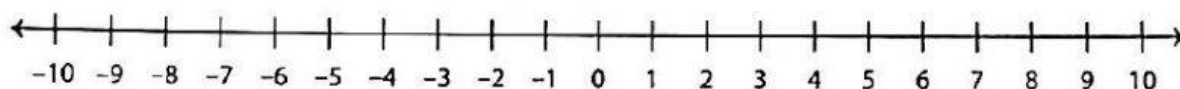
(1) 2 units to the left of 3 is _____.   (2) 6 units to the right of –1 is _____.

(3) 3 units to the right of 7 is _____.   (4) 8 units to the left of 5 is _____.

5. Representations using integers.

Situation	Integer	Situation	Integer
the loss of 5 yards	-5	A gain of 45 yards	
19 degrees below zero	-19	12 degrees above zero	
A profit of 400 dollars	400	A loss of 29 dollars	
A debt of 250 dollars	-250	a surplus of 25 computers	
100 feet below sea level	-100	4,000 feet above sea level	
a decrease of 18 degrees		An increase of 10 degrees	
An increase of 20 students		A decrease of 34 students	
A gain of 56 yards		A loss of 11 yards	
8 strokes under par		3 strokes over par	
32 degrees above zero		25 degrees below zero	
A profit of $10		A debt of $300	

Name/Nombre: _____ Date/Fecha:_____