

Integers, Opposites, Absolute Value

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	

Comparing integers: (using =, >, <)

$-3 \boxed{>} -5$

$-2 \boxed{<} 1$

$-8 \boxed{<} -6$

$-7 \boxed{<} 3$

$-9 \boxed{} 7$

$-8 \boxed{} -10$

$0 \boxed{} -6$

$-3 \boxed{} -14$

$-8 \boxed{} -1$

$-5 \boxed{} 1$

$-6 \boxed{} -20$

$0 \boxed{} -4,000$

Ordering integers:

Original list of integers

Ordered least to greatest

-8, -4, -10, -7, 1	-10, -8, -7, -4, 1
11, -4, 0, -3, 9, -9, -1	-9, -4, -3, -1, 0, 9, 11
-13, 11, 7, -4, -2	
3, -4, -9, -1, -2	
22, -31, -10, -4, 18	
-35, -29, 22, -12, 0	

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Opposites and Absolute Values:

The opposite of -7 is 7.

The opposite of 18 is -18.

The opposite of 10 is _____.

The opposite of -3 is _____.

The opposite of -30 is _____.

The opposite of 22 is _____.

$$|-4| = 4$$

$$|18| = 18$$

$$|-15| = 15$$

$$|0| = 0$$

$$|-7| = \underline{\hspace{2cm}}$$

$$|40| = \underline{\hspace{2cm}}$$

$$|-10| = \underline{\hspace{2cm}}$$

$$|-31| = \underline{\hspace{2cm}}$$

$$|6| = \underline{\hspace{2cm}}$$

$$|22| = \underline{\hspace{2cm}}$$

$$|2| = \underline{\hspace{2cm}}$$

$$|-12| = \underline{\hspace{2cm}}$$

The opposite of $|-4|$ is _____.

The opposite of $|5|$ is _____.

The opposite of $-|9|$ is _____.

The opposite of $-|-10|$ is _____.

$$-|-2| = \underline{\hspace{2cm}}$$

$$-|14| = \underline{\hspace{2cm}}$$

$$-|3| = \underline{\hspace{2cm}}$$

$$-|-38| = \underline{\hspace{2cm}}$$

$$|-30| = \underline{\hspace{2cm}}$$

$$-(-|-5|) = \underline{\hspace{2cm}}$$