

1.4 Integers and Absolute Value

Integers: The set of positive whole #'s, their opposites, and zero.

Positive Terms:

Profit, Deposit, Above, Elevation

Ex) A gain of 15 yards.

+ 15

Negative Terms:

Debt, Below, Loss

Ex) A debt of 8 dollars.

- 8

Opposites: Two numbers that are the same distance from zero on a # line in opposite directions.

Find the opposite of each.

Ex) $-5 \rightarrow +5$

Ex) $9 \rightarrow -9$

Absolute Value: The distance that a number is from 0 on a number line.

*** (Always positive.)

Ex) $|9| = 9$

Ex) $|-7| = 7$

Comparing and Ordering Integers:

-Graph the values.

-The values increase from left to right.

-Use $<$, $>$, or $=$ to compare.

Ex) Compare -7 and 1 . $-7 < 1$

Ex) Compare -9 and -4 . $-9 < -4$

Ex) Compare $|-7|$ and $|7|$. $|-7| = |7|$

Ex) Compare $|-3|$ and $|2|$. $|-3| > |2|$

Ex) Order from least to greatest:

$3, -1, -4,$ and 2 .

$-4, -1, 2, 3$