

Adding and Subtracting Integers

Adding or subtracting integers with signs,
 and the sign.

$$(4 + 2 = 6) \quad (-6 + -8 = -14) \quad (-9 - 4 = -13)$$

Adding or subtracting integers with signs,
 and the sign of the integer.

$$(-6 + 3 = -3) \quad (8 + -4 = 4)$$

*when a , it turns into a
and then follows one of the two rules above.

$$(8 - -4 = 12 \text{ becomes } 8 + 4 = 12)$$

$$(-8 - -4 = -4 \text{ becomes } -8 + 4 = -4)$$

Simplify

1.) $-45 + 8$

2.) $9 + (-26) + 3$

3.) $54 + (-6) + 15 + (-21)$

4.) $-27 - 16$

5.) $45 - (-12)$

6.) $8 - (-9)$

7.) A helicopter ascended 220 meters to an altitude of 300 meters. Find the original altitude.

8.) The winter low temperature in Frosty City was -18° F. The summer high temperature was 86° F. Find the difference between the temperatures.

Evaluate each expression if $x = -4$, $y = -1$, and $z = 6$.

9.) $z - 11$

10.) $y - 8$

11.) $y - z - x$

12.) $x - y + z$