

Pre-Chapter 7: Add and Subtract Integers

Integer Addition Rules:

SAME SIGNS:

1. Pretend the signs aren't there.
2. **ADD** the numbers
3. Put the sign of the addends in front of your answer.

$$-8 + -2 = -10 \quad 5 + 2 = 7 \quad -12 + -4 = -16$$

DIFFERENT SIGNS:

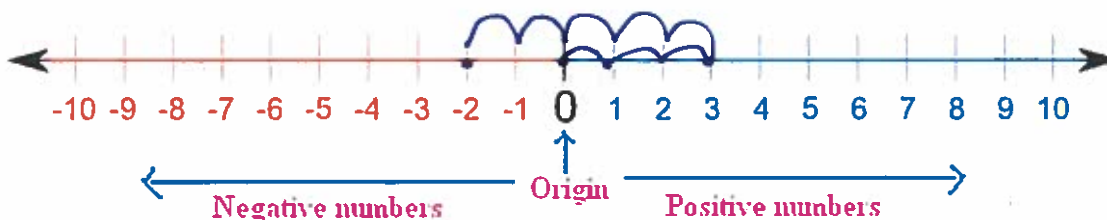
1. Pretend the signs aren't there.
2. **Subtract** the smaller from the larger one
3. Put the sign of the larger one in front of your answer.

$$-8 + 2 = -6 \quad -5 + 2 = -3 \quad 12 + -4 = 8$$

Use A Number Line:

- When the number is positive count to the right.
- When the number is negative count to the left.

$$+3 + -5 = -2$$



Integer Subtraction Rules:

Subtracting a negative number is the same as adding a positive. Change the signs and add.

Slash & dash

Steps:

1. Slash and Dash **starting with the subtraction sign in the middle**
2. Follow addition rules above.

$$2 - (-7)$$

is the same as

$$2 + (+7)$$
$$2 + 7 = 9$$

Examples:

$$10 + (-6) = 4$$

$$-13 + 7 = -5$$

$$-5 + (-5) = -10$$

$$2 + 11 = 13$$

$$9 + (+6) = 15$$

$$12 + (+12) = 24$$

$$2 + \bar{6} = -4$$

$$-7 + (+4) = -3$$