

6 Adding and Subtracting Integers

Addition and Subtraction

Steps

1. Look at each number and make sure each number has one sign.
2. If a number has more than one sign, make one sign.
3. Look at the signs- are they different or the same?



Same Signs

Add absolute values and keep common sign

Different Signs

Subtract absolute values and keep the sign of the number with the greater absolute value

You have...Opposite = Negative

+(-)

You have the opposite...of negative = Positive

-(-)

-(+)

You have opposite... of positive = Negative

+(+)

You have...Positive = Positive

Same signs, keep and add

Different signs, subtract

Keep the sign of the greater absolute value, then you'll be exact.

Different signs

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

Same signs

$$-4 - 3 = \boxed{-7}$$

Different signs

$$6 + (-8) = 6 - 8 = \boxed{-2}$$

Different signs

$$-9 + 3 = \boxed{-6}$$

$$2 - (-7) \text{ same signs} \\ 2 + 7 = \boxed{9}$$