## Integer Rules

## Two Signs Together, Side by Side

• Multiply, Simplify, Reclassify

3 + -7 Rule:  $+ \cdot - = -$  6 - (+9) Rule:  $- \cdot + = -$ 

3-7 Simplified, Diff Signs 6-9 Simplified, Diff Signs

3 - - 7 Rule:  $- \cdot - = +$  6 - (-9) Rule:  $- \cdot - = +$ 

3+7 Simplified, Same Signs 6+9 Simplified, Same Signs

## **Multiplying (or Dividing)**

Same Signs: Positive
Different Signs: Negative

$$+ \bullet + = + 9 \bullet 2 = 18$$
  $- \bullet + = - 9 \bullet - 2 = -18$ 

$$- \bullet - = + -9 \bullet - 2 = 18$$
  $+ \bullet - = -9 \bullet 2 = -18$ 

## Addition & Subtracting (Combining)

"When Adding, Opposites Attract"

• Same Signs + : Combine (Add), Keep the Sign

$$-9-2=-11$$
  $9+2=11$ 

• Different Signs — : Subtract, Keep Sign of the Larger |#|

$$-9+2=-7$$
  $9-2=7$