

INTEGER OPERATIONS REFERENCE

Addition (+)

$(+) + (+)$ **Positive**

$(-) + (-)$ **Negative**

$(+) + (-)$ *Use sign of the larger absolute value*

Subtraction (-)

*"Keep, Change, Change"
Add the opposite of the second number.*

$5 - 8$ $5 + (-8) = -3$

$5 - (-8)$ $5 + 8 = 13$

Multiplication ($\tilde{-}$)

Operation

Result

$(+) \tilde{-} (+)$

(+) Positive

$(-) \tilde{-} (-)$

(+) Positive

$(+) \tilde{-} (-)$

(-) Negative

Division ($\tilde{\cdot}$)

Operation

Result

$(+) \tilde{\cdot} (+)$

(+) Positive

$(-) \tilde{\cdot} (-)$

(+) Positive

(+) $\tilde{A} \cdot (-)$

(-) **Negative**

Quick Summary

Same Signs: Result is Positive (for $\tilde{A}—$ and $\tilde{A} \cdot$)

Different Signs: Result is Negative (for $\tilde{A}—$ and $\tilde{A} \cdot$)