

Integer Operations Reference

THE NUMBER LINE

MULTIPLICATION & DIVISION RULES

Operation	Result Sign	Example
$(+) \times (+)$ or $(+) \div (+)$	Positive (+)	$5 \times 2 = 10$
$(-) \times (-)$ or $(-) \div (-)$	Positive (+)	$-5 \times -2 = 10$
$(+) \times (-)$ or $(+) \div (-)$	Negative (-)	$5 \times -2 = -10$
$(-) \times (+)$ or $(-) \div (+)$	Negative (-)	$-5 \times 2 = -10$

ADDITION & SUBTRACTION RULES

Scenario	Rule	Example
Same Signs	Add values, keep the sign	$-3 + (-4) = -7$
Different Signs	Subtract smaller from larger, keep larger's sign	$-10 + 4 = -6$

Scenario**Rule****Example**

Subtracting
Negative

Change to addition (Double Negative)

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