

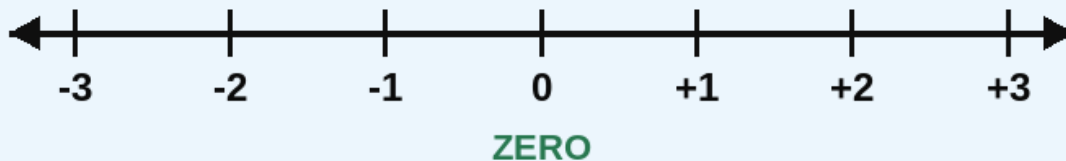
INTEGER RULES

OVERVIEW: WHAT IS AN INTEGER?

INTEGERS are whole numbers and their negative counterparts, including zero.

← **NEGATIVE**

POSITIVE →



Examples:

+5, 12, & e.g., -8, -1

NOT integers,

2.5, 3/4

ADDITION RULES

Same Signs

$$+5 + +3 = +8$$

$$-4 + -2 = -6$$

Add & keep sign

Different Signs

$$+7 + -3 = +4$$

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

Subtract absolute values, take sign of larger absolute value

SUBTRACTION RULES

Change to Addition

Keep-Change-Change method

$$+6 - +2 = +6 + -2 = +4$$

$$-8 - -3 = -8 + +3 = -5$$

(Rules reference addition)

MULTIPLICATION RULES

$$(+) \times (+) =$$

$$(-) \times (-) = (+)$$

$$(+) \times (-) =$$

$$(-) \times (+) = (-)$$

Same Signs → POSITIVE

Different Signs → NEGATIVE

DIVISION RULES

Same Sign → Positive

Different Signs → Negative

Examples

$$+15 \div +3 = +5$$

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

$$-20 \div -4 = +5$$

$$-12 \div +4 = -3$$