

Intermediate Numbers * Mixed Integers 2 E

Fundamental Operations: Addition, Subtraction, Multiplication, Division with Integers

Principle (Rule) of Signs: $(+3) = + + +$ $(-4) = - - - -$ $(+5) = + + + + +$ $(-2) = - -$

Principle (Rule) of Opposites: $(+3)+(-3) = 0$ $(-4)+(+4) = 0$ $(+5)+(-2) = +3$ $(+3)+(-7) = -4$

Addition (Combining of Signs)

Same Signs => Combine Values then Common Sign! Different Signs => Cancel Values then Sign of Result!

Subtraction (Add the Opposite)

Change Subtraction to Addition then Change Sign of Second Number to Opposite Sign then Combine!

Multiplication (Same Signs & Different Signs)

Multiply then If Signs are the Same then Result is (+)! Multiply then If Signs are Different then Result is (-)!

Division (Same Signs & Different Signs)

Divide then If Signs are the Same then Result is (+)! Divide then If Signs are Different then Result is (-)!

$$(-10) / (+5) = -2$$

$$(-16) / (-8) = +2$$

$$(+2) - (+9) = -7$$

$$(+3) - (-6) = +9$$

$$(+2) + (+9) = +11$$

$$(+3) + (-6) = -3$$

$$(+2) \times (+9) = +18$$

$$(+3) \times (-6) = -18$$

$$(-3) \times (-8) = +24$$

$$(-2) \times (+7) = -14$$

$$(-3) + (-8) = -11$$

$$(-2) + (+7) = +5$$

$$(+6) / (+2) = +3$$

$$(+28) / (-7) = -4$$

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

$$(-2) - (+7) = -9$$

$$(+4) - (-7) = +11$$

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

$$(+4) \times (-7) = -28$$

$$(+5) \times (+8) = +40$$

$$(-9) / (-3) = +3$$

$$(-12) / (+6) = -2$$

$$(+4) + (-7) = -3$$

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

$$(-5) \times (+6) = -30$$

$$(-4) \times (-9) = +36$$

$$(-5) + (+6) = +1$$

$$(-4) + (-9) = -13$$

$$(+8) / (-4) = -2$$

$$(+27) / (+9) = +3$$

$$(-5) - (+6) = -11$$

$$(-4) - (-9) = +5$$

Intermediate Numbers * Mixed Integers 2 F

Fundamental Operations: Addition, Subtraction, Multiplication, Division with Integers

Principle (Rule) of Signs: $(+3) = + + +$ $(-4) = - - - -$ $(+5) = + + + + +$ $(-2) = - -$

Principle (Rule) of Opposites: $(+3)+(-3) = 0$ $(-4)+(+4) = 0$ $(+5)+(-2) = +3$ $(+3)+(-7) = -4$

Addition (Combining of Signs)

Same Signs => Combine Values then Common Sign! Different Signs => Cancel Values then Sign of Result!

Subtraction (Add the Opposite)

Change Subtraction to Addition then Change Sign of Second Number to Opposite Sign then Combine!

Multiplication (Same Signs & Different Signs)

Multiply then If Signs are the Same then Result is (+)! Multiply then If Signs are Different then Result is (-)!

Division (Same Signs & Different Signs)

Divide then If Signs are the Same then Result is (+)! Divide then If Signs are Different then Result is (-)!

$$(-3) \times (-8) = +24$$

$$(-2) \times (+7) = -14$$

$$(-3) + (-8) = -11$$

$$(-2) + (+7) = +5$$

$$(+6) / (+2) = +3$$

$$(+28) / (-7) = -4$$

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

$$(-2) - (+7) = -9$$

$$(-10) / (+5) = -2$$

$$(-16) / (-8) = +2$$

$$(+2) - (+9) = -7$$

$$(+3) - (-6) = +9$$

$$(+2) + (+9) = +11$$

$$(+3) + (-6) = -3$$

$$(+2) \times (+9) = +18$$

$$(+3) \times (-6) = -18$$

$$(-5) \times (+6) = -30$$

$$(-4) \times (-9) = +36$$

$$(-5) + (+6) = +1$$

$$(-4) + (-9) = -11$$

$$(+8) / (-4) = -2$$

$$(+27) / (+9) = +3$$

$$(-5) - (+6) = -11$$

$$(-4) - (-9) = +5$$

$$(+4) - (-7) = +11$$

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

$$(+4) \times (-7) = -28$$

$$(+5) \times (+8) = +40$$

$$(-9) / (-3) = +3$$

$$(-12) / (+6) = -2$$

$$(+4) + (-7) = -3$$

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

Intermediate Numbers * Mixed Integers 2 G

Fundamental Operations: Addition, Subtraction, Multiplication, Division with Integers

Principle (Rule) of Signs: $(+3) = + + +$ $(-4) = - - - -$ $(+5) = + + + + +$ $(-2) = - -$

Principle (Rule) of Opposites: $(+3)+(-3) = 0$ $(-4)+(4) = 0$ $(+5)+(-2) = +3$ $(+3)+(-7) = -4$

Addition (Combining of Signs)

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Subtraction (Add the Opposite)

Change Subtraction to Addition then Change Sign of Second Number to Opposite Sign then Combine!

Multiplication (Same Signs & Different Signs)

Multiply then If Signs are the Same then Result is (+)! Multiply then If Signs are Different then Result is (-)!

Division (Same Signs & Different Signs)

Divide then If Signs are the Same then Result is (+)! Divide then If Signs are Different then Result is (-)!

$$(-10) / (+2) = -5$$

$$(-12) / (-6) = +2$$

$$(+2) - (+7) = -5$$

$$(+3) - (-9) = +12$$

$$(+2) + (+6) = +8$$

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

$$(+2) \times (+5) = +10$$

$$(+3) \times (-7) = -21$$

$$(-3) \times (-7) = +21$$

$$(-2) \times (+5) = -10$$

$$(-3) + (-9) = -12$$

$$(-2) + (+9) = +7$$

$$(+8) / (+2) = +4$$

$$(+28) / (-4) = -7$$

$$(-3) - (-6) = +3$$

$$(-2) - (+6) = -8$$

$$(+4) - (-7) = +3$$

$$(+5) - (+6) = -1$$

$$(+4) \times (-9) = -36$$

$$(+5) \times (+7) = +35$$

$$(-15) / (-3) = +5$$

$$(-12) / (+3) = -4$$

$$(+4) + (-6) = -2$$

$$(+5) + (+9) = +14$$

$$(-5) \times (+7) = -35$$

$$(-4) \times (-7) = +28$$

$$(-5) + (+9) = +4$$

$$(-4) + (-6) = -10$$

$$(+8) / (-2) = -4$$

$$(+16) / (+8) = +2$$

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

$$(-4) - (-5) = +1$$

Intermediate Numbers * Mixed Integers 2 H

Fundamental Operations: Addition, Subtraction, Multiplication, Division with Integers

Principle (Rule) of Signs: $(+3) = + + +$ $(-4) = - - - -$ $(+5) = + + + + +$ $(-2) = - -$

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Subtraction (Add the Opposite)

Change Subtraction to Addition then Change Sign of Second Number to Opposite Sign then Combine!

Multiplication (Same Signs & Different Signs)

Multiply then If Signs are the Same then Result is (+)! Multiply then If Signs are Different then Result is (-)!

Division (Same Signs & Different Signs)

Divide then If Signs are the Same then Result is (+)! Divide then If Signs are Different then Result is (-)!

$$(-3) \times (-5) = +15$$

$$(-2) \times (+6) = -12$$

$$(-3) + (-9) = -12$$

$$(-2) + (+9) = +7$$

$$(+6) / (+6) = +1$$

$$(+28) / (-4) = -7$$

$$(-3) - (-7) = +4$$

$$(-2) - (+8) = -10$$

$$(-14) / (+7) = -2$$

$$(-16) / (-4) = +4$$

$$(+2) - (+8) = -6$$

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

$$(+4) + (+9) = +13$$

$$(+3) + (-7) = -4$$

$$(+2) \times (+6) = +12$$

$$(+3) \times (-9) = -27$$

$$(-5) \times (+7) = -35$$

$$(-4) \times (-8) = +32$$

$$(-5) + (+9) = +4$$

$$(-4) + (-7) = -11$$

$$(-8) / (-8) = +1$$

$$(+27) / (+3) = +9$$

$$(-5) - (+5) = -10$$

$$(-4) - (-6) = +2$$

$$(+4) - (-6) = +10$$

$$(+5) - (+9) = -4$$

$$(+4) \times (-6) = -24$$

$$(+5) \times (+6) = +30$$

$$(-24) / (-6) = +4$$

$$(-12) / (+2) = -6$$

$$(+4) + (-8) = -4$$

$$(+5) + (+7) = +12$$