

# Combining Integers with SAME SIGN

Ex:  $1 + 10$        $-2 + (-8)$        $-5 - 7$

- KEEP the sign
- ADD the numbers

$$1 + 10 = + 11$$

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

$$-5 - 7 = -12$$

# Combining Integers with DIFFERENT SIGNS

$$\text{Ex: } -1 + 8$$

$$2 - 8$$

$$7 + (-9)$$

- Take the sign of larger #
- SUBTRACT the numbers

$$-1 + 8 = +7$$

$$2 - 8 = -6$$

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

# Subtracting a negative integer

$$\text{Ex: } 3 -(-8) \qquad -2 -(-9)$$

- Rewrite as ADDITION

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

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

# Multiplying Integers

+

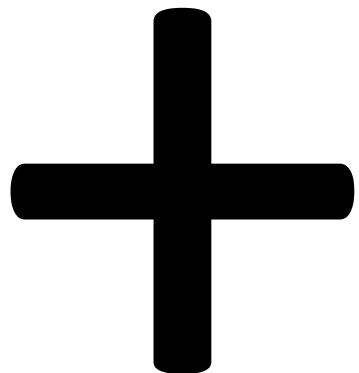
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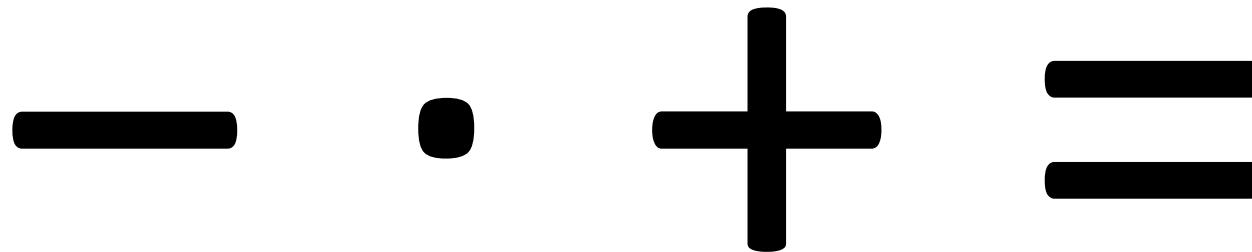
Positive

Positive



Positive

# Multiplying Integers



Negative

Positive



# Negative

# Multiplying Integers

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Positive

Negative



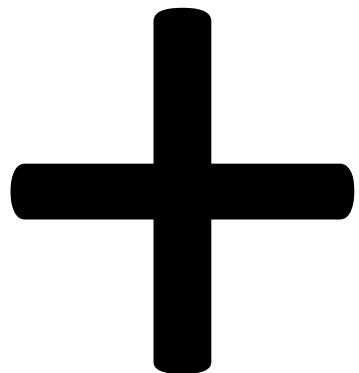
# Negative

# Multiplying Integers



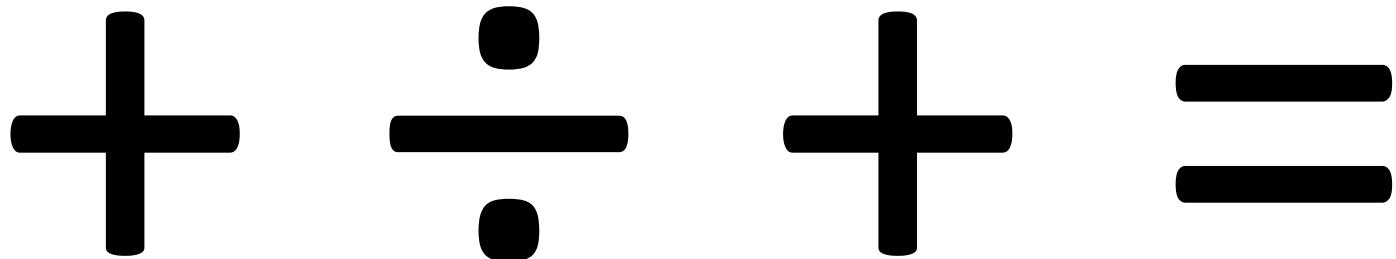
Negative

Negative



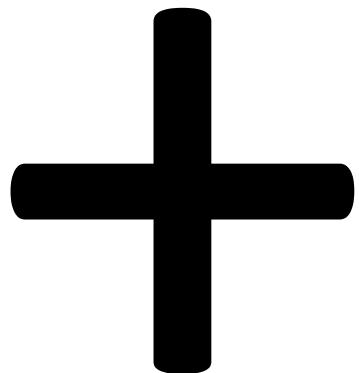
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# Dividing Integers



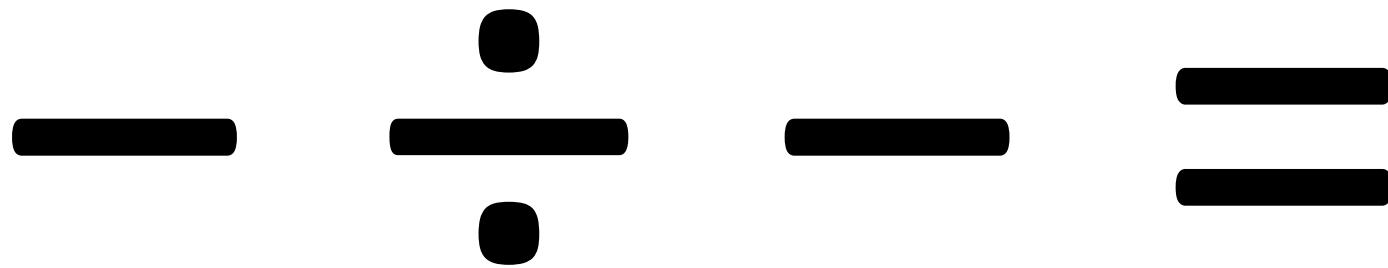
Positive

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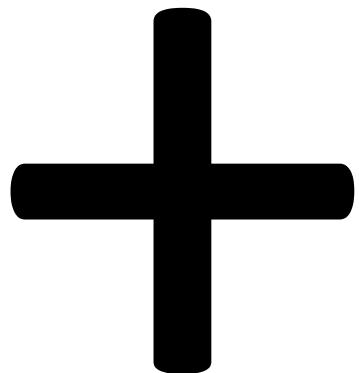
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# Dividing Integers



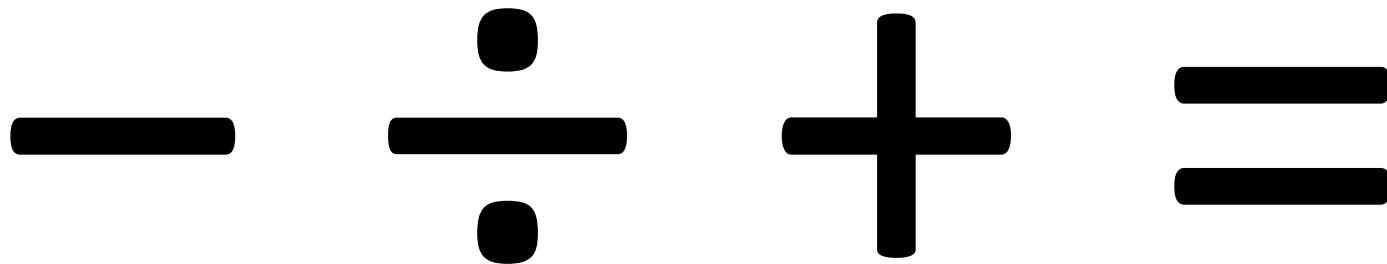
Negative

Negative



Positive

# Dividing Integers



Negative

Positive



# Negative

# Dividing Integers

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Positive

Negative



# Negative