

1. Same Sign Rule:

Mathematical: When adding two integers that are the same sign, the sum is the sign of the addends and you **<u>add</u>** the absolute values of the addends.

Think: "*How many in all?*" <u>Example:</u>

2. Opposite Rule:

Mathematical: When adding two integers that are opposites, their sum is always zero. Think: "*Opposites create zero pairs!*" <u>Example:</u>

3. Different Sign Rule:

Mathematical: When adding two integers that are different signs (one positive and one negative), the sum is the sign of the addend with the larger absolute value and you <u>subtract</u> the absolute values of the addends.

Think: "What are there more of?

How many more?"

Example:

Subtraction is the same as Adding the Opposite

Subtracting a Negative

is the same as

Adding a Positive

Example:

Subtracting a Positive

is the same as

Adding a Negative

Example:

$(+) \bullet (+) = (+)$

A positive times a positive equals a positive.

 $(-) \bullet (-) = (+)$

A negative times a negative equals a positive.

 $(+)\bullet(-)=(-)$

A positive times a negative equals a negative.

$(-)\bullet(+)=(-)$

A negative times a positive equals a negative.

OR

Even Rule: If there is an even number of negative factors, the product will be **POSITIVE Odd Rule**: If there is an odd number of negative factors, the product will be **NEGATIVE**

(+)÷ (+) = (+)

A positive divided by a positive equals a positive.

(-)÷ (-) = (+)

A negative divided by a negative equals a positive.

 $(+) \div (-) = (-)$ A positive divided by a negative equals a negative.

(-)÷(+) = (-)

A negative divided by a positive equals a negative.

Examples:

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