

Name: _____

Date: _____

6.3: Rules for Adding & Subtracting Integers

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Goal: Applying the rules for adding and subtracting integers.

So far we have learned how to add and subtract integers using models. In this lesson you will learn, discuss and apply the rules for adding and subtracting integers.

Rules for Adding Integers

There are two rules when adding integers.

Rule # 1: _____

$$(+11) + (+7)$$

=

Are the signs the same? _____

Then, we will _____ the sign and _____ the numbers. Complete the question above using this rule.

$$(-17) + (-12)$$

=

Are the signs the same? _____

Then, we will _____ the sign and _____ the numbers. Complete the question above using this rule.

Rule # 2: _____

$$(-11) + (+19)$$

Are the signs the different? _____

Then _____ the sign of the _____ number and find the _____.
Complete the question above using this rule.

Rule for Subtracting Integers

Rule: _____

$$(+17) - (+6)$$

According to this rule, we have to change the subtraction sign (-) to an addition sign (+) and change the second integer to its opposite integer.

Change the question below by following the rules above.

Our new question will look like this;

$$(+17) \text{ ___ } (\text{__}6)$$

We have now changed our subtraction question to an addition question. Now we can look back to our addition rules to answer the question.

$$(+17) + (-6)$$

=

We should use addition rule # _____ to answer the question above because the signs are _____.

Note: The subtraction rule basically has you turn the subtraction question into an addition question so you can apply the addition rules.