

Grade 8: Integer Review

Grade 7: Adding and Subtracting Integers

Adding Integers with the same Signs

If the two numbers have the same sign then you can ignore the sign and add the two numbers. Then place the sign of the integers before the answer.

For example:

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

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

Adding Integers with Different Signs

Ignore the signs of the numbers of the two numbers. Subtract the smaller number from the larger number. Look back at the original number and place the sign that accompanied it next to the answer.

For example:

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

The larger number is a positive so the answer is positive.

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

The larger number is a negative so the answer is negative.

Subtracting Integers

To subtract an integer, add its opposite.

$$\text{Example: } (+6) - (+3) = +3$$

So this means +6 and the opposite of +3 which is -3.

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

$$\text{Example: } (-6) - (-3) = -3$$

So this means -6 and the opposite of -3 which is +3.

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

Grade 8

Integer Multiplication (Section 2.1 p. 64)

Rule 1: If the integers being multiplied have the **same sign** then the product is **positive**.

Rule 2: If the integers being multiplied have **different signs** then the product is **negative**.

Integer triangle as a way to remember the sign of your answer when multiplying or dividing integers.

<http://www.youtube.com/watch?v=R3M5Ktv3sLc>

Two Video Clips saved on computer