Rules for operations with Integers

Addition and Subtraction Rules:

<u>Rule #1</u> Combing 2 signs

When there are two signs on the numeral, +(-3) or +-3, you can combine them:

++ = +   + - = -

- - = +   - + = -

Ex: 5 +(-3) or 5 + - 3 become 5 – 3

<u>Rule #2</u> Signs are the same

When the signs are the same add the numerals and keep the sign.

Ex: - 2 – 3 = - 5

<u>Rule #3</u> Signs are different

When the signs are different, subtract the smaller numeral from the larger and keep the sign of the larger numeral.

Ex: - 5 + 7 = 2   - 7 + 5 = - 2

Multiplication and Division Rules:

<u>Rule #4</u> When multiplying, multiply the numerals and:

+ • + = +   + • - = -

- • - = +   - • + = -

<u>Rule #5</u> When dividing, divide the numerals and:

+ ÷ + = +   + ÷ - = -

- ÷ - = +   - ÷ + = -