Practice 3 - Adding and Subtracting Integers

Objective: To add and subtract real numbers.

Examples:

Adding Integers with the Same Sign \Rightarrow Add their absolute values. Give the sum the same sign as the integers.

-3 + -4 = -7 Add |-3| and |-4|. Both numbers are negative so the sum is negative.

Adding Integers with Different Signs \rightarrow Subtract their absolute values. Give the result the same sign as the integer with the greater absolute value.

-5 + 4 = -1 Subtract |4| from |-5|. The sum is negative because |-5|>|4|

Subtracting Integers > To subtract an integer, add its additive inverse.

9 - 17 = -8 To subtract 17, add -17.

Simplify each expression.

Practice 4 - Multiplying and Dividing Integers

Objective: To multiply and divide real numbers.

Examples:

The product of two positive or two negative numbers is positive.

The product of a positive number and a negative number, or a negative number and a positive number, is negative.

$$6 \div 3 = 2$$

The quotient of two positive numbers or two negative numbers is positive.

$$-14 \div 2 = -7$$

The quotient of a positive number and a negative number, or a negative number and a positive number, is negative.

Simplify each expression.

3.
$$\frac{-18}{-3}$$

6.
$$\frac{2}{3}\left(-\frac{4}{5}\right)$$

$$9. \qquad 9\left(-\frac{5}{18}\right)$$

12.
$$\frac{3-14}{-2}$$