



Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## Adding Rational Numbers

**Rule 1:** When adding two positive numbers, find the sum of their absolute values, the answer is positive.

**Rule 2:** When adding two negative numbers, find the sum of their absolute values, the answer is negative.

**Rule 3:** When adding one positive and negative number, find the difference between their absolute values and use the sign of the integer with the greatest absolute value.

### Examples:

Simplify  $(+2) + (+5)$ .  
 $= +7$

$$(-3) + (-2)$$
$$= -5$$

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

$$(+0.4) + (-0.7)$$
$$= -0.3$$

$$(4.7) + (2.1)$$
$$= +6.8$$

$$(-1.5) + (-2.3)$$
$$= -3.8$$

$$\left(\frac{-4}{5}\right) + \left(\frac{+3}{5}\right)$$
$$= -\frac{1}{5}$$

$$\left(\frac{-1}{2}\right) + \left(\frac{-3}{4}\right)$$
$$= \left(\frac{-2}{4}\right) + \left(\frac{-3}{4}\right)$$
$$= -\frac{5}{4} = -1\frac{1}{4}$$

**Simplify the following.**

1.  $(+3.2) + (+4.1)$

2.  $(-15) + (-10)$

3.  $(+0.6) + (-0.2)$

4.  $\left(\frac{-1}{6}\right) + \left(\frac{+5}{6}\right)$

5.  $\left(\frac{-3}{7}\right) + \left(\frac{-2}{7}\right)$

6.  $\left(\frac{+3}{8}\right) + \left(\frac{-2}{8}\right)$

7.  $(+0.25) + (-0.15)$

8.  $(-1.5) + (-0.4)$

9.  $(+2.1) + (+2.6)$

10.  $\left(\frac{+1}{4}\right) + \left(\frac{-3}{8}\right)$

11.  $\left(\frac{-2}{7}\right) + \left(\frac{+1}{3}\right)$

12.  $\left(\frac{-2}{5}\right) + \left(\frac{-1}{2}\right)$