Name: _____ Date: _____ **Unit 1 Homework**

Adding & Subtracting Fractions Homework

Directions: Be sure to show all work, communicate your thought process, and justify your reasoning. Remember to check that your answers are complete, correct, and reasonable.

~ Simplify each expression.

1. $4/5 + 7/8 - 1/4$

2. $2/3 - 2/9$

3. $\frac{1}{12} + \frac{3}{10}$

4. $\frac{1}{15} - \frac{2}{3} + \frac{4}{5}$

5. $1\frac{3}{4} - \frac{5}{6}$

6. $2\frac{3}{8} + \frac{3}{4}$

* For problems 7-9, $m = -\frac{4}{5}$, $n = \frac{2}{3}$, and p = $\frac{1}{10}$.

7. 2 + m

8. m - n

9. p - m

~ Write and simplify a numerical expression to solve each problem.

10. A recipe for brownies calls for 3 cups of flour. Jane, Jack, and Jill are baking the brownies together. Jane put in the first half-cup cup of flour, and then Jack put in $1\frac{2}{3}$ cups of flour. How much flour should Jill put in so that the batter has enough?

11. a. You are jogging through a park that is 1¾ miles long. If you have already jogged two-thirds of a mile, how much farther do you have to job to make it through the entire park?

b. Jason jogged through the entire park, and then jogged another ½ of a mile! How far did Jason jog?

Looking Ahead:

A chocolate chip cookie recipe that makes 25 cookies calls for ¾ cups of chocolate chips! If you want to make 75 cookies for a party, how many cups of chocolate chips will you need?

Selected Solutions

1. 57/40 3. 23/60 5. 11/12 7. 1 and 1/5 9. 9/10

11. a. You have to jog one and one-twelfth more miles to make it through the park.

b. Jason jogged two and one-quarter miles.