

Name:

Date:

Block:

Topic 5 Study Guide: Adding and Subtracting Rational Numbers

Directions: Read each question carefully. Circle important information and underline the question. Then solve. Show all of your work.

1. Find the value of these expressions.

a. $97.67 - 88.82 =$

b. $2.49 - 0.149 =$

c. $10.5 + 2.78 + 15.5 =$

2. Give the value of each expression in fraction form.

a. $7.1 - 3.35 =$

b. $3 \frac{5}{8} - 2 \frac{3}{4} - \frac{1}{8} =$

3. $\frac{8}{5} + 1 \frac{3}{4} + 1.8$ List some expressions that would have the same value as the expression above.

4. Kelly works at an ice cream shop and makes \$5.28 per hour. Joe works for a landscaper and makes \$4.45 per hour. How much more does Kelly make each hour?

5. Mason set a weekly goal of jogging 15 miles. After 4 days, he has jogged $7 \frac{3}{4}$ miles. How many more miles must he jog to reach his goal?

6. Rachel has a math quiz every 10 days and a social studies quiz every 15 days. Today she has both quizzes. When is the next time she will have both quizzes on the same day? (LCM)

7. What is the perimeter of a rectangle if the length is $4\frac{1}{2}$ yards and the width is $2\frac{2}{3}$ yards?

8. Mrs. Cahoon's flower garden has a length of 150.5 centimeters. The width is 40.75 centimeters less than the length. What is the width of the flower garden in centimeters?

9. A recipe for the filling in cinnamon rolls at the school cafeteria asks for $3\frac{1}{2}$ cups of sugar, 2 sticks of butter, and $\frac{3}{4}$ cup of cinnamon. The baker wants to pre-mix the cinnamon and sugar. What is the total number of cups of sugar and cinnamon the baker will pre-mix?

10. Maddie cut pink paper strips for her scrapbook. She cut a $5\frac{1}{2}$ inch strip from a 15 inch strip. What is the length in inches of the strip that remains?