

Name: _____

Date: _____

Ms. Napolitano

Activity # _____

I can apply the properties of operations to add and subtract rational numbers.**CCSS:** 7.NS.1c**Homework**

Directions: On Tuesday Answer questions 1-11 on a separate sheet of paper and on Wednesday answer questions 12- 18.

Add. Write fractions in simplest form.

1. $\frac{2}{5} + \left(-\frac{3}{15}\right)$

2. $\frac{7}{12} + \left(-1\frac{2}{3}\right)$

3. $\frac{2}{7} + \left(-3\frac{5}{14}\right)$

4. $7.26 + (-13.43)$

5. $-18.02 + 15.68$

6. $-15.75 + (-12.76)$

7. Describe and correct the error in finding the sum.

$$\times \quad 2\frac{5}{6} + \left(-\frac{8}{15}\right) = \frac{13}{6} + \left(-\frac{8}{15}\right) = \frac{65 + (-16)}{30} = \frac{49}{30} = 1\frac{19}{30}$$

Evaluate the expression when $x = -\frac{1}{5}$ and $y = \frac{3}{4}$.

8. $x + (-y)$

9. $4x + y$

10. $-|x| + y$

11. Your banking account balance is $-\$1.56$. You deposit $\$10$. What is your new balance?12. You mow $\frac{1}{3}$ of the lawn. Your sister mows $\frac{2}{7}$ of the lawn. What fraction of the lawn is mowed?**Add. Write fractions in simplest form.**

13. $1\frac{1}{4} + \left(-4\frac{1}{5}\right) + \left(-2\frac{3}{5}\right)$

14. $-\frac{1}{3} + 2\frac{2}{9} + \left(-5\frac{2}{3}\right)$

15. $-1.5 + (14.2) + 7.3$

16. When is the sum of two rational numbers with different signs positive?

17. The table at the right shows the amount of snowfall (in inches) for three months compared to the yearly average. Is the snowfall for the three-month period greater than or less than the yearly average? Explain.

December	January	February
$1\frac{2}{3}$	$-2\frac{1}{6}$	$2\frac{5}{6}$

18. The table below shows the weekly profits of a concession stand. What must the Week 5 profit be to break even over the 5-month period?

Week 1	Week 2	Week 3	Week 4	Week 5
2.4	-1.7	5.4	-3.75	?