

Name: \_\_\_\_\_  
Mr. Williams

Date: \_\_\_\_\_  
Rational Numbers

Topic: Rational Numbers  
**Homework (Day 10)**

Directions: All Answers must be shown on a separate sheet of paper!

**Add. Write fractions in simplest form.**

1.  $\frac{5}{16} + \left(-\frac{7}{16}\right)$

2.  $\frac{3}{5} + \left(-\frac{4}{15}\right)$

3.  $-\frac{7}{2} + 3\frac{2}{3}$

4.  $5.6 + (-1.3)$

5.  $-8.2 + 5.4$

6.  $7.15 + (-12.76)$

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

$\times \quad \frac{3}{10} + \left(-\frac{1}{10}\right) = \frac{3+1}{10} = \frac{4}{10} = \frac{2}{5}$
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Evaluate the expression when  $x = \frac{1}{2}$  and  $y = -\frac{2}{5}$ .

8.  $-x + y$

9.  $x + 2y$

10.  $|x + y|$

11. The temperature is  $-12.6$  degrees Celsius. The temperature goes up 7.9 degrees. What is the new temperature?

12. You finish  $\frac{3}{8}$  of the project. Your friend finishes  $\frac{1}{4}$  of the project. What fraction of the project is finished?

**Add. Write fractions in simplest form.**

13.  $5 + \left(-2\frac{1}{3}\right) + \left(-3\frac{1}{6}\right)$

14.  $-4\frac{1}{5} + 3\frac{2}{3} + \left(-1\frac{2}{5}\right)$

15.  $-12.4 + 19.1 + (-4.3)$

16. Determine if the following statements are *always*, *sometimes*, or *never* true.

- When adding two negative rational numbers, the sum will be negative.
- When adding two rational numbers with different signs, the sum will be zero.
- When adding two positive rational numbers, the sum will be zero.
- When adding two rational numbers with different signs, the sum will be negative.