

Lesson 2.1

Extra Practice

Find the sum. Write the fractions in simplest form.

1. $-14 + 3$ (-11) 2. $5 + (-1)$ (4) 3. $\frac{3}{5} + (-\frac{4}{15})$ $(\frac{1}{3})$
 4. $-\frac{7}{2} + 3\frac{2}{3}$ $(\frac{1}{6})$ 5. $-8.2 + 5.4$ (-2.8) 6. $7.15 + (-12.76)$ (-5.61)

7. Your friend finds the sum. Is your friend correct? Explain your reasoning.

$$\frac{3}{10} + (-\frac{1}{10}) = \frac{3+(-1)}{10} = \frac{2}{10} = \frac{1}{5}$$

no $3 + (-1) = 2$ so it would be $\frac{2}{10} \div 2 = \frac{1}{5}$

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

$\frac{3}{8} + \frac{1}{4} = \frac{5}{8}$ of the project is finished

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

$-12.6 + 7.9 = (-4.7^\circ\text{C})$

Evaluate the expression. Write fractions in simplest form.

10. $-7 + (-4) + 7$ (-4) 11. $(3.8 + 5.7) + 0.3$ (9.8) 12. $[4.9 + (-3.5)] + (-0.5)$ (0.9)

Find the sum.

13. $5 + (-2\frac{1}{3}) + (-3\frac{1}{6})$ $(-\frac{1}{2})$ 14. $-4\frac{1}{5} + 3\frac{2}{3} + (-1\frac{2}{5})$ $(-1\frac{14}{15})$ 15. $-12.4 + 19.1 + (-6.3)$ (2.4)

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

- a. When adding two negative rational numbers, the sum will be negative. *always*
 b. When adding two rational numbers with different signs, the sum will be zero. *sometimes*
 c. When adding two positive rational numbers, the sum will be zero. *never*
 d. When adding two rational numbers with different signs, the sum will be negative. *sometimes*