Name _____ Date _____

Lesson 2.2 Extra Practice

Find the difference. Write fractions in simplest form.

1. $4 - 17$ -13

2. $-9 - (-3)$ -6

3. $-\frac{1}{3} - \left(-\frac{9}{4}\right)$ $1\frac{11}{12}$

4. $-3\frac{1}{2} - 1\frac{5}{6}$ $-5\frac{1}{3}$

5. $-12.41 - (-9.95)$ -2.46

6. $2 - 8.25$ -6.25

7. Your dog's water bowl is $\frac{3}{4}$ full. After taking a drink, the water bowl is $\frac{1}{3}$ full. What fraction of the bowl did your dog drink?

$\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$

8. Mary filled a water cooler with $6\frac{1}{2}$ gallons of water. She forgot to close the plug and $2\frac{5}{6}$ gallons leaked out.

   a. How many gallons of water remain in the cooler?

   $6\frac{1}{2} - 2\frac{5}{6} = 3\frac{2}{3}$

   b. She adds $1\frac{1}{4}$ gallons. How many gallons of water are now in the cooler?

   $3\frac{2}{3} + 1\frac{1}{4} = 4\frac{11}{12}$

Tell how the Commutative and Associative Properties of Addition can help you evaluate the expression. Then evaluate the expression.

9. $\frac{7}{8} + \left(-4\frac{1}{2}\right) - \left(-2\frac{3}{4}\right)$ $-\frac{7}{8}$

10. $-10.64 + 5.76 - (-2.31)$ -2.57

Find the distance between the two numbers on a number line.

11. 6 and $-4\frac{1}{4}$ $6 - (-4\frac{1}{4}) = 10\frac{1}{4}$

12. -3.1 and -5.7 $-3.1 - (-5.7)$ 2.6

13. $-1\frac{1}{3}$ and $-4\frac{2}{5}$ $-1\frac{1}{3} - (-4\frac{2}{5})$ $3\frac{1}{15}$

14. Is the difference of two positive rational numbers always positive? Explain.

no, if the first number is less than the second, the answer would be negative. ex. $5.2 - 10.6 = -5.4$