Name _____ Date _____

Find the difference. Write fractions in simplest form.

1. $4 - 17$

2. $-9 - (-3)$

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

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

5. $-12.41 - (-9.95)$

6. $2 - 8.25$

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?

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?

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

    c. How many gallons of water must she add to the cooler to get the required $6\frac{1}{2}$ gallons?

Evaluate the expression.

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

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

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

11. 6 and $-4\frac{1}{4}$

12. -3.1 and -5.7

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

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