1. Instead of subtracting, add the opposite of $\frac{3}{5}$, $-\frac{3}{5}$. Then, add $\left|-\frac{4}{5}\right|$ and $\left|-\frac{3}{5}\right|$, and the sign is negative.

2. $-\frac{3}{4} + \frac{5}{8}$, which equals $-\frac{1}{8}$. All the others equal $-1\frac{3}{8}$.

Practice and Problem Solving

3. $1\frac{1}{2}$

4. -3

5. -3.5

6. $-6\frac{2}{3}$

7. $-18\frac{13}{24}$

8. $\frac{1}{18}$

9. -2.6

10. -1.83

11. 14.963

12. They did not use the least common denominator.

$$\frac{3}{4} - \frac{9}{2} = \frac{3}{4} - \frac{18}{4}$$
$$= \frac{3 - 18}{4}$$
$$= \frac{-15}{4}$$
$$= -3\frac{3}{4}$$

13. $3\frac{1}{4}$

14. 10.6

15. $3\frac{1}{3}$

16. $\frac{3}{8} - \frac{5}{6} = -\frac{11}{24}$

17. a. 410.7 feet

    b. 136.9 feet per hour

18. $\frac{1}{18}$

19. 1.2

20. $-3\frac{9}{10}$

21. The difference is an integer when (1) the decimals have the same sign and the digits to the right of the decimal point are the same, or (2) the decimals have different signs and the sum of the decimal parts of the numbers add up to 1.

22. No, the cook needs $\dfrac{1}{12}$ cup more.

23. $-1\dfrac{7}{8}$ miles

24–26. See *Taking Math Deeper*.

27. *Sample answer:* $x = -1.8$ and $y = -2.4$; $x = -5.5$ and $y = -6.1$

28. sometimes; It is positive only if the first fraction is greater.

29. always; It is always positive because the first decimal is always greater.

30. $5.24 - (8.85) = -3.61$