

## Practice

For use with pages 225-229

Find the sum or difference.

1.  $\frac{12}{13} + \frac{12}{13}$

2.  $\frac{1}{10} - \frac{9}{10}$

3.  $-\frac{13}{32} + \left(-\frac{13}{32}\right)$

4.  $\frac{34}{43} - \left(-\frac{12}{43}\right)$

5.  $-\frac{11}{30} - \left(-\frac{7}{30}\right)$

6.  $-\frac{17}{50} + \frac{19}{50}$

7.  $\frac{43}{100} - \left(-\frac{17}{100}\right)$

8.  $\frac{9}{80} - \frac{51}{80}$

9.  $8\frac{7}{10} + 3\frac{9}{10}$

10.  $5\frac{1}{7} - 6\frac{2}{7}$

11.  $3\frac{1}{15} - 7\frac{11}{15}$

12.  $1\frac{2}{9} - 12\frac{7}{9}$

13.  $24\frac{17}{22} - 16\frac{5}{22}$

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

15.  $20\frac{5}{6} + \left(-18\frac{5}{6}\right)$

16.  $-4\frac{11}{16} - \frac{15}{16}$

Simplify the expression.

17.  $\frac{7x}{20} + \frac{17x}{20}$

18.  $\frac{19x}{28} + \frac{x}{28}$

19.  $-\frac{9}{14x} + \frac{17}{14x}$

20.  $-\frac{4x}{45} - \frac{41x}{45}$

21.  $\frac{4}{x} - \frac{11}{x}$

22.  $\frac{7}{24x} + \left(-\frac{5}{24x}\right)$

23.  $\frac{11}{12x} - \left(-\frac{5}{12x}\right)$

24.  $\frac{8}{5x} + \frac{3}{5x} - \left(-\frac{4}{5x}\right)$

**5.2**

Continued

**Practice**

For use with pages 225-229

Evaluate the expression.

25.  $\frac{1}{12} + \frac{5}{12} + \frac{11}{12}$

26.  $\frac{5}{8} + \frac{7}{8} + \left(-\frac{3}{8}\right)$

27.  $-\frac{9}{14} + \frac{3}{14} + \frac{5}{14}$

28.  $\frac{4}{7} - \left(-\frac{2}{7}\right) + \frac{5}{7}$

29.  $-\frac{7}{9} - \frac{4}{9} - \frac{2}{9}$

30.  $-\frac{9}{20} + \frac{11}{20} - \left(-\frac{3}{20}\right)$

31. You have a piece of wood that is  $7\frac{3}{4}$  feet long. You want to cut one piece that is  $3\frac{7}{12}$  feet long and one piece that is  $4\frac{1}{12}$  feet long. Do you have enough wood? Explain.

32. You run the 60-yard dash in  $7\frac{9}{20}$  seconds. Your friend runs it in  $6\frac{19}{20}$  seconds. How much faster is your friend's time?

33. Three puppies weigh  $1\frac{1}{16}$  pounds,  $1\frac{3}{16}$  pounds, and  $\frac{15}{16}$  pound. You are carrying all three in a basket. Find the total weight of the three puppies.

**Practice**

For use with pages 230-235

Find the sum or difference.

1.  $\frac{7}{12} + \frac{7}{10}$

2.  $\frac{8}{9} + \left(-\frac{10}{21}\right)$

3.  $-\frac{4}{17} + \frac{3}{5}$

4.  $-\frac{3}{4} - \left(-\frac{5}{18}\right)$

5.  $-\frac{1}{6} - \frac{9}{22}$

6.  $-\frac{11}{12} - \frac{7}{15}$

7.  $\frac{9}{20} - \frac{3}{16}$

8.  $-\frac{5}{14} - \left(-\frac{9}{10}\right)$

Evaluate the expression when  $x = \frac{5}{6}$  and  $y = -\frac{3}{10}$ .

9.  $x + y$

10.  $x - y$

11.  $y - x$

12.  $-y - x$

Find the sum or difference.

13.  $5\frac{2}{7} + 7\frac{1}{6}$

14.  $4\frac{5}{9} - 3\frac{2}{15}$

15.  $-2\frac{8}{9} + 2\frac{5}{6}$

16.  $-1\frac{5}{8} - \left(-2\frac{1}{5}\right)$

17.  $1\frac{3}{4} - 4\frac{3}{14}$

18.  $-6\frac{3}{25} + 3\frac{1}{2}$

19.  $4\frac{9}{16} + \left(-3\frac{3}{10}\right)$

20.  $-1\frac{2}{3} - \left(-1\frac{4}{11}\right)$

**5.3**

Continued

**Practice**

For use with pages 230-235

Evaluate the expression when  $x = -4\frac{1}{6}$  and  $y = 1\frac{11}{16}$ .

21.  $x + y$

22.  $x - y$

23.  $y - x$

24.  $-y - x$

Simplify the expression.

25.  $-\frac{7x}{6} - \frac{x}{5}$

26.  $\frac{x}{8} + \frac{5x}{3}$

27.  $-\frac{2x}{9} + \frac{7x}{15}$

28.  $\frac{4x}{7} - \frac{8x}{5}$

29. A baby weighs  $7\frac{1}{8}$  pounds at birth. After four months, the baby weighs  $15\frac{2}{3}$  pounds. How much weight did the baby gain?

30. In a bag of marbles,  $\frac{2}{5}$  are red,  $\frac{2}{7}$  are green, and the rest are blue. What fraction of the marbles are blue?

31. An ice sculpture originally has a height of  $74\frac{1}{4}$  inches. The ice sculpture begins to melt and after several hours, the height has decreased by  $8\frac{7}{16}$  inches. What is the current height of the sculpture?