

# Study Guide Answers

## EXERCISES

Add. Write the answer in simplest form. (Lesson 4.1)

1.  $\frac{3}{8} + \frac{4}{5} = 1\frac{7}{40}$       2.  $1\frac{9}{10} + \frac{3}{4} = 2\frac{13}{20}$       3.  $\frac{2}{8} + \frac{6}{12} = \frac{3}{4}$

Subtract. Write the answer in simplest form. (Lesson 4.1)

4.  $1\frac{3}{7} - \frac{4}{5} = \frac{22}{35}$       5.  $\frac{7}{8} - \frac{5}{12} = \frac{11}{24}$       6.  $3\frac{5}{10} - \frac{4}{8} = 3$

**Multiply. Write the answer in simplest form. (Lesson 4.1)**

7.  $\frac{1}{7} \times \frac{4}{5} = \frac{4}{35}$

8.  $\frac{5}{6} \times \frac{2}{3} = \frac{5}{9}$

9.  $\frac{3}{7} \times \frac{14}{15} = \frac{2}{5}$

10.  $1\frac{1}{3} \times \frac{5}{8} = \frac{5}{6}$

11.  $1\frac{2}{9} \times 1\frac{1}{2} = 1\frac{5}{6}$

12.  $2\frac{1}{7} \times 3\frac{2}{3} = 7\frac{6}{7}$

**Divide. Write the answer in simplest form. (Lessons 4.2, 4.3)**

13.  $\frac{3}{7} \div \frac{2}{3} = \frac{9}{14}$

14.  $\frac{1}{8} \div \frac{3}{4} = \frac{1}{6}$

15.  $1\frac{1}{5} \div \frac{1}{4} = 4\frac{4}{5}$

16. On his twelfth birthday, Ben was  $4\frac{3}{4}$  feet tall. On his thirteenth birthday, Ben was  $5\frac{3}{8}$  feet tall. How much did Ben grow between his twelfth and thirteenth birthdays? (Lesson 4.1)

$\frac{5}{8}$  of a foot

7. Ron had 20 apples. He used  $\frac{2}{5}$  of the apples to make pies. How many apples did Ron use for pies? (Lesson 4.4)

8 apples

8. The area of a rectangular garden is  $38\frac{1}{4}$  square meters. The width of the garden is  $4\frac{1}{2}$  meters. Find the length of the garden. (Lesson 4.4)

$8\frac{1}{2}$  meters

## EXERCISES

Add. (Lesson 5.2)

1.  $12.24 + 3.9 = \underline{16.14}$       2.  $0.986 + 0.342 = \underline{1.328}$       3.  $2.479 + 0.31 = \underline{2.789}$

Subtract. (Lesson 5.2)

4.  $6.19 - 3.05 = \underline{3.14}$       5.  $7.285 - 0.975 = \underline{6.31}$       6.  $14.31 - 13.41 = \underline{0.9}$

Multiply. (Lesson 5.3)

7.  $\begin{array}{r} 12 \\ \times 0.4 \\ \hline \end{array} = \underline{4.8}$       8.  $\begin{array}{r} 0.15 \\ \times 9.1 \\ \hline \end{array} = \underline{1.365}$       9.  $\begin{array}{r} 3.12 \\ \times 0.25 \\ \hline \end{array} = \underline{0.78}$

Divide. (Lessons 5.1, 5.4)

10.  $78,974 \div 21 = \underline{3,760 \text{ R}14}$       11.  $19,975 \div 25 = \underline{799}$       12.  $67,396 \div 123 = \underline{547 \text{ R}115}$
13.  $5 \overline{)64.5} = \underline{12.9}$       14.  $0.6 \overline{)25.2} = \underline{42}$       15.  $2.1 \overline{)36.75} = \underline{17.5}$
16. A pound of rice crackers costs \$2.88. Matthew purchased  $\frac{1}{4}$  pound of crackers. How much did he pay for the crackers? (Lesson 5.5)           \$0.72