

## Lesson 11 Practice Problems

1. Use long division to show that the fraction and decimal in each pair are equal.

$$\frac{3}{4} \text{ and } 0.75$$

$$\frac{3}{50} \text{ and } 0.06$$

$$\frac{7}{25} \text{ and } 0.28$$

2. Mai walked  $\frac{1}{8}$  of a 30-mile walking trail. How many miles did Mai walk? Explain or show your reasoning.

3. Use long division to find each quotient. Write your answer as a decimal.

a.  $99 \div 12$

b.  $216 \div 5$

c.  $1,988 \div 8$

4. Tyler reasoned: " $\frac{9}{25}$  is equivalent to  $\frac{18}{50}$  and to  $\frac{36}{100}$ , so the decimal of  $\frac{9}{25}$  is 0.36."

a. Use long division to show that Tyler is correct.

b. Is the decimal of  $\frac{18}{50}$  also 0.36? Use long division to support your answer.

5. Complete the calculations so that each shows the correct difference.

a.

$$\begin{array}{r} 5 \\ - \square \square \square \square \\ \hline 4.329 \end{array}$$

b.

$$\begin{array}{r} 1 \\ - \square \square \square \square \\ \hline 0.015 \end{array}$$

c.

$$\begin{array}{r} 1 \\ - \square \square \square \square \\ \hline 0.863 \end{array}$$

(From Unit 5, Lesson 4.)

6. Use the equation  $124 \cdot 15 = 1,860$  and what you know about fractions, decimals, and place value to explain how to place the decimal point when you compute  $(1.24) \cdot (0.15)$ .

(From Unit 5, Lesson 6.)