

Name: \_\_\_\_\_

## Decimal Division

Find each quotient. Do not use a calculator.

a.

$$4 \overline{) 2.48}$$

b.

$$3 \overline{) 19.5}$$



c.

$$6 \overline{) 15.84}$$

d.

$$7 \overline{) 3.675}$$

e.

$$2 \overline{) 147.6}$$



- f. **Akio cut a piece of plywood into a square.**  
**The perimeter of the plywood was 78.4 inches.**  
**What was the length of each side?**  
Show your work and label your answer.

Name: \_\_\_\_\_

## Division with Decimals

When dividing a number by a divisor with a decimal, follow these steps:

$$0.8 \overline{)2.4}$$

$$0.6 \overline{)2.82}$$

$$0.12 \overline{)0.816}$$

1. Make the divisor a whole number by moving the decimal point to the right until there are no decimal places left.

$$8 \overline{)24}$$

$$6 \overline{)282}$$

$$12 \overline{)816}$$

2. In the dividend, move the decimal point to the right the same number of places that you moved the decimal point in the divisor.

$$8 \overline{)24.}$$

$$6 \overline{)28.2}$$

$$12 \overline{)0.816}$$

3. Divide normally placing the decimal point in the quotient directly above the new placement of the decimal point in the dividend.

$$8 \overline{)24} \begin{array}{r} 3 \\ \hline \end{array}$$

$$6 \overline{)282} \begin{array}{r} 47 \\ \hline \end{array}$$

$$12 \overline{)816} \begin{array}{r} 68 \\ \hline \end{array}$$

Find the quotients.

a.  $0.4 \overline{)1.28}$

b.  $0.03 \overline{)0.54}$

c.  $0.9 \overline{)3.96}$

d.  $7 \overline{)38.5}$