

## **Friendly Notes**

# Multiplication by a 2-Digit Whole Number

Multiply 6.80 by 15.

$$6.80 \times 15 = 6.80 \times 10 + 6.80 \times 5$$
  
=  $68.0 + 34.0$   
=  $102$   
 $6.80 \approx 7$   
 $6.80 \times 15 \approx 7 \times 15$   
=  $105$ 



The estimate 105 is close to the answer 102. Therefore, the estimate is reasonable.

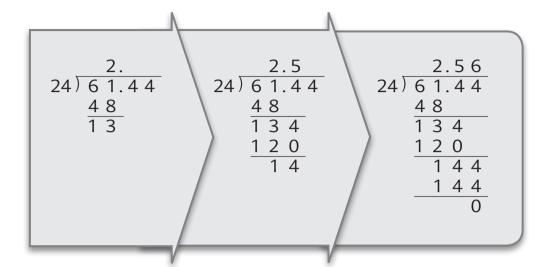
The estimate is reasonable as it is close to the answer.

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Primary Mathematics (Common Core Edition) Extra Practice 5

### Division by a 2-Digit Whole Number

Divide 61.44 by 24.



Estimate: 
$$61.44 \div 24 \approx 60 \div 20 = 3$$

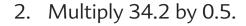


# **Multiplication by a Decimal**

When a decimal is multiplied by 0.1, we move the decimal point 1 place to the left.

1. Multiply 25.6 by 0.1.

$$25.6 \times 0.1 = 2.56$$



$$34.2 \times 0.5 = 34.2 \times 5 \times 0.1$$
  
= 171 × 0.1  
= 17.1

When a decimal is multiplied by 0.01, we move the decimal point 2 places to the left.

3. Multiply 3.8 by 0.01.

$$3.8 \times 0.01 = 0.038$$



4. Multiply 42.8 by 0.05.

$$42.8 \times 0.05 = 42.8 \times 5 \times 0.01$$
  
=  $214 \times 0.01$   
=  $2.14$ 

5. Estimate. Then find the value of  $8.2 \times 0.09$ .

$$8.2 \times 0.09 \approx 8 \times 0.09$$
  
= 0.72

$$8.2 \times 0.09 = 8.2 \times 9 \times 0.01$$
  
=  $73.8 \times 0.01$   
=  $0.738$ 

### Division by a Decimal

1. Divide 49.28 by 0.7.

$$49.28 \div 0.7 = 492.8 \div 7$$
  
= 70.4





2. Find the value of  $8.648 \div 0.88$  correct to 2 decimal places.

$$8.648 \div 0.88 = 864.8 \div 88$$
  
= 9.827

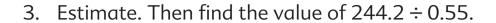
**≈** 9.83



$$\begin{array}{r}
9.827 \\
88) 864.800 \\
\underline{792} \\
728 \\
\underline{704} \\
240 \\
\underline{176} \\
640 \\
\underline{616} \\
24
\end{array}$$







$$244.2 \div 0.55 \approx 250 \div 0.5$$
  
= 500

$$244.2 \div 0.55 = 24,420 \div 55$$
  
= 444



#### **Conversion of Measures**

$$1 \text{ m} = 100 \text{ cm}$$
  $1 \text{ yd} = 3 \text{ ft}$   
 $0.1 \text{ m} = 10 \text{ cm}$   $1 \text{ ft} = 12 \text{ in.}$   
 $0.01 \text{ m} = 1 \text{ cm}$   
 $1 \text{ km} = 1,000 \text{ m}$ 

1. Express 3.75 km in meters.

$$3.75 \text{ km} = 3.75 \times 1,000$$
  
= 3,750 m

2. Express 42 in. in ft.

42 in. = 
$$\frac{42}{12}$$
 ft  
=  $3\frac{1}{2}$  ft



3. Express 320 g in kg.

$$320 g = \frac{320}{1,000} kg$$
$$= \frac{8}{25} kg$$

4. Express 64 oz in lb.

$$64 \text{ oz} = \frac{64}{16} \text{ lb}$$
  
= 4 lb

5. Express 0.58 L in ml.

$$0.58 L = 0.58 \times 1,000 ml$$
  
= 580 ml

6. Express 10 qt in gal.

10 qt = 
$$\frac{10}{4}$$
 gal = 2.5 gal

7. Express 84 pt in qt.

$$84 \text{ pt} = \frac{84}{2} \text{ qt}$$
  
= 42 qt