

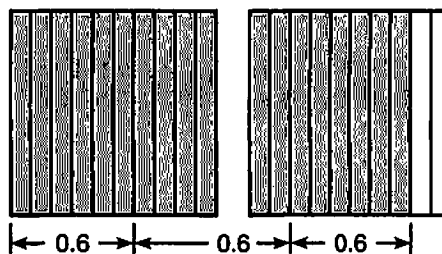


## SKILL 15: Dividing a Decimal by a Whole Number

The model shows that if you divide 1.8 into 3 equal parts, each part is 0.6.

$$\begin{array}{r} 0.6 \leftarrow \text{quotient} \\ 3 \overline{)1.8} \\ \hline \end{array}$$

divisor      dividend



To divide a decimal by a whole number, first put the decimal point in the quotient directly above the decimal point in the dividend. Then divide as if you were dividing whole numbers.

### Example

**Divide:**  $10.8 \div 4$ .

Put the decimal point in the quotient.

$$4 \overline{)10.8}$$

Divide 10 by 4. Write the quotient above the 0. Bring down the 8.

$$\begin{array}{r} 2. \\ 4 \overline{)10.8} \\ \underline{8} \phantom{0} \\ 28 \phantom{0} \end{array}$$

Divide 28 by 4.

$$\begin{array}{r} 2.7 \\ 4 \overline{)10.8} \\ \underline{8} \phantom{0} \\ 28 \phantom{0} \\ \underline{28} \\ 0 \end{array}$$

$$10.8 \div 4 = 2.7$$

### Guided Practice

Find each quotient. Remember to put the decimal point in the quotient.

$$\begin{array}{r} \square \square \square \\ 8 \overline{)42.\square\square} \\ \underline{40} \phantom{0} \\ 20 \\ \underline{16} \phantom{0} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Annex zeros in the dividend. Divide until the remainder is 0.

$$\begin{array}{r} \square \square \square \\ 4 \overline{)87.2} \\ \square \phantom{0} \\ \square \square \\ \square \phantom{0} \\ \square \square \\ \square \square \\ \square \square \\ \square \phantom{0} \end{array}$$

$$\begin{array}{r} \square \square \square \\ 12 \overline{)21.72} \\ \square \square \phantom{0} \\ \square \square \phantom{0} \\ \square \square \phantom{0} \\ \square \square \phantom{0} \\ \square \square \phantom{0} \\ \square \square \phantom{0} \\ \square \square \phantom{0} \end{array}$$

**SKILL 15: Practice**

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Divide. Continue dividing until the remainder is 0.

1.  $5\overline{)6.85}$

2.  $3\overline{)13.68}$

3.  $4\overline{)13}$

4.  $8\overline{)52}$

5.  $3\overline{)15.39}$

6.  $6\overline{)404.4}$

7.  $5\overline{)10.95}$

8.  $6\overline{)28.5}$

9.  $40\overline{)30}$

10.  $15\overline{)61.65}$

11.  $22\overline{)165}$

12.  $65\overline{)240.5}$

13.  $109.5 \div 75 = \underline{\hspace{2cm}}$

14.  $127.35 \div 45 = \underline{\hspace{2cm}}$

15.  $26.45 \div 23 = \underline{\hspace{2cm}}$

16.  $42.5 \div 25 = \underline{\hspace{2cm}}$

17.  $79.1 \div 14 = \underline{\hspace{2cm}}$

18.  $9.6417 \div 3 = \underline{\hspace{2cm}}$

Solve.

19. A 5-pound beef roast costs \$9.45.  
What is the price per pound? \_\_\_\_\_20. Sliced turkey costs \$4 per pound. How  
many pounds do you get for \$16.20? \_\_\_\_\_21. Find the quotient:  $6.52 \div 4$ .

Skill 15

A 1.13

C 1.63

B 16.3

D 163

22. Add:  $0.73 + 4 + 2.8$ .

Skill 6

F 6.53

H 1.05

G 7.53

J 4.91