

REVIEW: Dividing Decimals

Name _____

Key Concept and Vocabulary

$$5.2\overline{)31.408} \rightarrow 52\overline{)314.08}$$

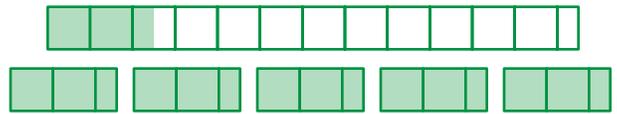
Move decimals 1 place.

$$\begin{array}{r} 6.04 \\ 52\overline{)314.08} \\ \underline{312} \\ 208 \\ \underline{208} \\ 0 \end{array}$$



Visual Model

$$12.5 \div 5 = 2.5$$



When you divide 12.5 into 5 equal parts, each part will be 2.5.

Skill Examples

- $65.3 \div 10 = 6.53$
- $65.3 \div 100 = 0.653$
- $65.3 \div 1000 = 0.0653$
- $65.3 \div 10,000 = 0.00653$

Divide by a power of 10 by moving the decimal point.

Application Example

- A prize of \$104.32 is divided equally among four people. How much does each person get?

$$104.32 \div 4 = 26.08$$

Each person gets \$26.08.



PRACTICE MAKES PURR-FECT™

Check your answers at BigIdeasMath.com.

Find the quotient.

- $5.2 \div 10 = \underline{\hspace{2cm}}$
- $73.1 \div 100 = \underline{\hspace{2cm}}$
- $1500 \div 1000 = \underline{\hspace{2cm}}$
- $18.98 \div 3.65 = \underline{\hspace{2cm}}$
- $0.598 \div 2 = \underline{\hspace{2cm}}$
- $19.003 \div 1 = \underline{\hspace{2cm}}$
- $3.42 \div 0.36 = \underline{\hspace{2cm}}$
- $78.4 \div 1.4 = \underline{\hspace{2cm}}$
- $1000 \div 12.5 = \underline{\hspace{2cm}}$
- $0.45 \div 0.0125 = \underline{\hspace{2cm}}$
- $29.45 \div 4.75 = \underline{\hspace{2cm}}$
- $19.7 \div 0.1 = \underline{\hspace{2cm}}$

Find the width of the rectangle.

18. $\underline{\hspace{2cm}}$ cm

Area = 35.36 cm^2

6.8 cm

19. $\underline{\hspace{2cm}}$ in.

15.2 in. Area = 129.2 in.^2

- DRIVING TRIP** You drive 1400 miles in 3.5 days. What is the average number of miles you drive per day? _____
- METRIC SYSTEM** There are 2.54 centimeters in one inch. How many inches are there in 51.78 centimeters? Round your answer to the nearest tenth of an inch. _____