

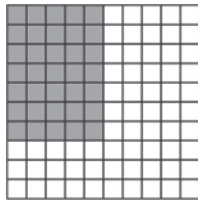
LESSON
5-4

Dividing Decimals

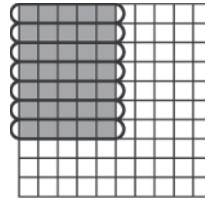
Reteach

You can use decimal grids to help you divide by whole numbers.

To divide 0.35 by 7, first shade in a decimal grid to show thirty-five hundredths.



$0.35 \div 7$ means “divide 0.35 into 7 equal groups.” Show this on the decimal grid.



The number of units in each group is the quotient.

So, $0.35 \div 7 = 0.05$.

Find each quotient.

1. $0.6 \div 5$

2. $0.78 \div 6$

3. $0.32 \div 4$

4. $0.99 \div 0.0033$

You can use powers of 10 to help you divide a decimal by a decimal.

Divide 0.048 by 0.12.

Notice that 0.12 has two decimal places.

To make this a whole number, multiply by 100.

$$0.048 \div 0.12 \longrightarrow 0.12 \cdot 100 = 12 \quad 0.048 \cdot 100 = 4.8$$

Then divide.

$$4.8 \div 12$$

Step 1: Divide as you would with a whole number.

$$\begin{array}{r} 0.4 \\ 12 \overline{)4.8} \end{array}$$

Step 2: Think $48 \div 12 = 4$.

$$\begin{array}{r} 48 \\ \underline{48} \\ 0 \end{array}$$

Step 3: Place the decimal point in the quotient.
Add a zero as necessary.

So, $0.048 \div 0.12 = 0.4$.

Find each quotient.

5. $0.4 \overline{)0.08}$

6. $0.9 \overline{)0.63}$

7. $0.008 \overline{)0.4}$

8. $0.04 \overline{)0.032}$
