

# Guided Practice 5.5

NAME \_\_\_\_\_

Module 5    Decimal Operations, Exponents, and Powers  
Lesson 5    Dividing Decimals

## Set 1

Estimate.

1  $620.14 \div 33.1$

$600 \div 30 = 20$   
 $620.14 \div 33.1 \approx 20$

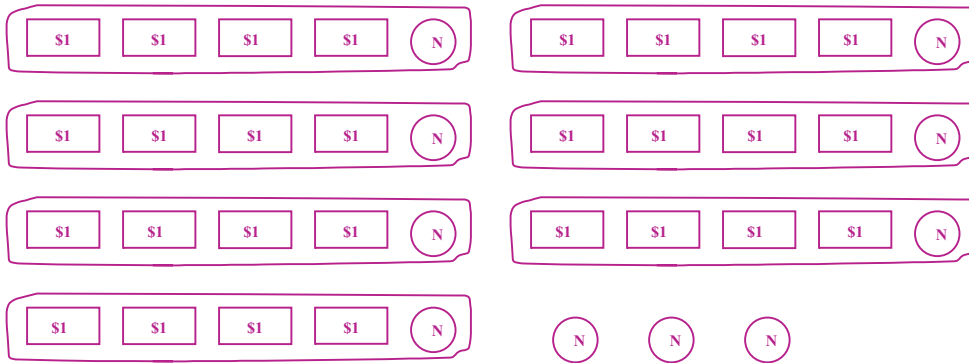
2  $87.641 \div 27.92$

$90 \div 30 = 3$   
 $87.641 \div 27.92 \approx 3$

## Set 2

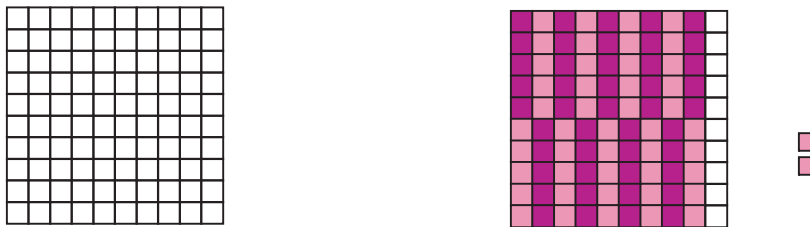
Divide using a model.

1 If \$28.50 is divided equally among seven friends, how much does each friend receive? What, if anything, is left over?



Each friend receives \$4.05. There is 15¢ left over.

2 How many nickels are in \$0.92? If necessary, express the remainder as a decimal part of a nickel.



18.4 nickels or 18 nickels and 2 pennies

### Set 3

Evaluate the expression and check for reasonableness of the answer.

**1**  $5 \div 11$

Estimate:  $5 \div 10 = 0.5$   
 Quotient:  $5 \div 11 = 0.\overline{45}$

$$\begin{array}{r} 0.4545 \\ 11 \overline{) 5.000} \\ \underline{-44} \phantom{00} \\ 60 \phantom{0} \\ \underline{-55} \phantom{0} \\ 50 \\ \underline{-44} \\ 6 \end{array}$$

**2**  $74.52 \div 12$

Estimate:  $70 \div 10 = 7$   
 Quotient:  $74.52 \div 12 = 6.21$

$$\begin{array}{r} 6.21 \\ 12 \overline{) 74.52} \\ \underline{-72} \phantom{00} \\ 25 \phantom{0} \\ \underline{-24} \phantom{0} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

### Set 4

Evaluate the expression and check for reasonableness of the answer.

**1**  $1.47 \div 4.2$

Estimate:  $1 \div 4 = 0.25$   
 Quotient:  $1.47 \div 4.2 = 0.35$

$$\begin{array}{r} 0.35 \\ 4.2 \overline{) 1.47} \rightarrow 42 \overline{) 14.70} \\ \underline{-126} \phantom{00} \\ 210 \phantom{0} \\ \underline{-210} \\ 0 \end{array}$$

**2**  $1.872 \div 0.036$

Estimate:  $2,000 \div 40 = 50$   
 Quotient:  $1.872 \div 0.036 = 52$

$$\begin{array}{r} 52 \\ 0.036 \overline{) 1.872} \rightarrow 36 \overline{) 1872} \\ \underline{-180} \phantom{00} \\ 72 \phantom{0} \\ \underline{-72} \\ 0 \end{array}$$