

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**MORE PRACTICE DIVIDING DECIMALS**  
**N-GEN MATH® 6**



Dividing decimals can be challenging, to say the least. In this lesson we will continue to practice dividing decimals. We will also work with checking our division and applying it.

**Exercise #1:** For each of the following, find the quotient and then check your work using a product. Show all work.

(a)  $11.2 \overline{)76.16}$

check:

(b)  $5.2 \overline{)39.52}$

check:

It's good to remember that we can always **check our division using multiplication!**

**Exercise #2:** Find each of the following quotients and check using multiplication.

(a)  $14.28 \overline{)178.5}$

check:

(b)  $1.64 \overline{)1.2792}$

check:



Division problems can get very long. You simply need to recall your work with long division and carefully work through each step.

**Exercise #3:** Find  $18.7116 \div 0.372$ . Check your answer using multiplication.

Division by decimals is important in a variety of real world settings.

**Exercise #4:** Dylan filled his car with 8.4 gallons of gasoline and paid \$24.27.

- (a) Find the price for a single gallon of gas to the nearest *hundredth* of a dollar (nearest penny).
- (b) Check your answer using multiplication. Why does your check not entirely agree with the information the problem gave?

**Exercise #5:** A rock made from granite weighs 437 grams. Granite weighs 2.7 grams per cubic centimeter. What is the volume of this rock in cubic centimeters? Round to the nearest cubic centimeter.



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**MORE PRACTICE DIVIDING DECIMALS**  
**N-GEN MATH<sup>®</sup> 6 HOMEWORK**

**FLUENCY**

1. Find each of the following quotients and then check using multiplication. Show all your work, including the work for your check.

(a)  $0.58 \overline{)7.308}$

check:

(b)  $25.7 \overline{)185.04}$

check:

(c)  $6.32 \overline{)152.312}$

check:

(d)  $0.074 \overline{)2.8786}$

check:

(e)  $24.6 \overline{)9.225}$

check:

(f)  $0.46 \overline{)0.39468}$

check:



## USING YOUR MATH

2. Luisa buys 4.2 pounds of flour. She pays \$15.12 for the flour. How much does each pound of flour cost? Justify your answer.



3. For a science experiment, Santiago is trying to determine the density of oil, or how much a single milliliter of oil weighs. He measures out 120 milliliters of oil and finds it weighs 110.4 grams. How many grams does one milliliter of oil weigh? Show your work.



## REVIEWING YOUR MATH

4. Find each sum or difference.

$$\begin{array}{r} 34.75 \\ (a) + 2.89 \\ \hline \end{array}$$

$$\begin{array}{r} 45.7 \\ (b) + 32.93 \\ \hline \end{array}$$

$$\begin{array}{r} 62.87 \\ (c) - 45.29 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ (d) - 28.23 \\ \hline \end{array}$$

5. Find the greatest common factor for each of the following pairs.

(a) 10 and 18

(b) 16 and 40

(c) 7 and 28

(d) 20 and 70

