Copyright @ Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc.

MAIN IDEA

 Divide decimals by decimals.

EXAMPLE Divide by Decimals

0 Find 59.4 \div 3.6.

Estimate

Multiply by to make a whole number.

3,6)59,4 Multiply by the same number,

Place the decimal point. $36)\overline{594.0}$ Divide as with whole numbers.



Annex a zero to continue.



59.4 divided by 3.6 is Compare to the estimate.

Check
$$\times 3.6 = 59.4$$

REMEMBER IT (

You can check the solution to a division problem by multiplying the quotient by the divisor.

Check Your Progress Find 72.9 ÷ 5.4.

0.054)8.100

Multiply each decimal by

Place the decimal point.

54)8100.



00

Write a zero in the ones place of the

So,
$$8.1 \div 0.054 =$$

Check
$$\times 0.054 = 8.1$$

10 - 100 = 100 Find $0.052 \div 1.3$.

FOLDABLES

ORGANIZE IT

Under Lesson 3-9 of your Foldable, compare and contrast dividing a decimal by a decimal and dividing a decimal by a whole number.

> Chapter 3: Operations with Decimals

 $1.3)\overline{0.052}$

Multiply each decimal by

13)0.52

$$\frac{-0}{05}$$

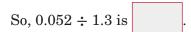
$$\frac{-00}{52}$$

$$\frac{52}{-52}$$

Place the decimal point.

13 does not go into 5, so write a

in the tenths place.



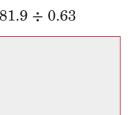
Check
$$\times 1.3 = 0.052$$

Check Your Progress

Divide.

a.
$$81.9 \div 0.63$$

b.
$$0.072 \div 1.2$$





REMEMBER IT (

When you are rounding to the nearest tenth, you can stop dividing when there is a digit in the hundredths place.

EXAMPLE Round Quotients

O STOCK Leon bought a stock at \$42.88 per share. If he spent \$786.85, how many shares did he buy? Round to the nearest tenth.

Find $$786.85 \div 42.88 .

Multiply the divisor and the dividend by

To the nearest tenth, $786.85 \div 42.88 =$ So, Leon was able to buy about shares.

Check Your Progress STOCK Kyle bought a stock at \$23.35 per share. If he spent \$771.28, how many shares did he buy? Round to the nearest tenth.

HOMEWORK ASSIGNMENT

Page(s): Exercises: