

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Divide. Rewrite each expression as a division sentence with a fraction divisor, and fill in the blanks. The first one is done for you.

Example:  $4 \div 0.1 = 4 \div \frac{1}{10} = 40$

There are 10 tenths in 1 whole.

There are 40 tenths in 4 wholes.

a.  $9 \div 0.1 =$

There are \_\_\_\_\_ tenths in 1 whole.

There are \_\_\_\_\_ tenths in 9 wholes.

b.  $6 \div 0.1 =$

There are \_\_\_\_\_ tenths in 1 whole.

There are \_\_\_\_\_ tenths in 6 wholes.

c.  $3.6 \div 0.1 =$

There are \_\_\_\_\_ tenths in 3 wholes.

There are \_\_\_\_\_ tenths in 6 tenths.

There are \_\_\_\_\_ tenths in 3.6.

d.  $12.8 \div 0.1 =$

There are \_\_\_\_\_ tenths in 12 wholes.

There are \_\_\_\_\_ tenths in 8 tenths.

There are \_\_\_\_\_ tenths in 12.8.

e.  $3 \div 0.01 =$

There are \_\_\_\_\_ hundredths in 1 whole.

There are \_\_\_\_\_ hundredths in 3 wholes.

f.  $7 \div 0.01 =$

There are \_\_\_\_\_ hundredths in 1 whole.

There are \_\_\_\_\_ hundredths in 7 wholes.

g.  $4.7 \div 0.01 =$

There are \_\_\_\_\_ hundredths in 4 wholes.

There are \_\_\_\_\_ hundredths in 7 tenths.

There are \_\_\_\_\_ hundredths in 4.7.

h.  $11.3 \div 0.01 =$

There are \_\_\_\_\_ hundredths in 11 wholes.

There are \_\_\_\_\_ hundredths in 3 tenths.

There are \_\_\_\_\_ hundredths in 11.3.

2. Divide.

a. $2 \div 0.1$	b. $23 \div 0.1$	c. $5 \div 0.01$
d. $7.2 \div 0.1$	e. $51 \div 0.01$	f. $31 \div 0.1$
g. $231 \div 0.1$	h. $4.37 \div 0.01$	i. $24.5 \div 0.01$

3. Giovanna is charged \$0.01 for each text message she sends. Last month, her cell phone bill included a \$12.60 charge for text messages. How many text messages did Giovanna send?
4. Geraldine solved a problem:  $68.5 \div 0.01 = 6,850$ .  
Ralph said, "This is wrong because a quotient can't be greater than the whole you start with. For example,  $8 \div 2 = 4$  and  $250 \div 5 = 50$ ." Who is correct? Explain your thinking.
5. The price for an ounce of gold on September 23, 2013, was \$1,326.40. A group of 10 friends decide to equally share the cost of 1 ounce of gold. How much money will each friend pay?

## Answer Key

1.
  - a.  $9 \div \frac{1}{10} = 90; 10; 90$
  - b.  $6 \div \frac{1}{10} = 60; 10; 60$
  - c.  $3.6 \div \frac{1}{10} = 36; 30; 6; 36$
  - d.  $12.8 \div \frac{1}{10} = 128; 120; 8; 128$
  - e.  $3 \div \frac{1}{100} = 300; 100; 300$
  - f.  $7 \div \frac{1}{100} = 700; 100; 700$
  - g.  $4.7 \div \frac{1}{100} = 470; 400; 70; 470$
  - h.  $11.3 \div \frac{1}{100} = 1,130; 1,100; 30; 1,130$
2.
  - a. 20
  - b. 230
  - c. 500
  - d. 72
  - e. 5,100
  - f. 310
  - g. 2,310
  - h. 437
  - i. 2,450
3. 1,260
4. Geraldine; answers will vary.
5. \$132.64