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 _____ tenths 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.

COMMON CORE   Lesson 29:   Connect division by a unit fraction to division by 1 tenth and 1 hundredth.

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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 share the cost equally on 1 ounce of gold. How much money will each friend pay?

COMMON CORE

Lesson 29: Connect division by a unit fraction to division by 1 tenth and
            1 hundredth.
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