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: \[ 2 \div 0.1 = 2 \div \frac{1}{10} = 20 \]
There are \(10\) tenths in 1 whole.
There are \(20\) tenths in 2 wholes.

a. \[ 5 \div 0.1 = 5 \div \frac{1}{10} = 50 \]
There are \(10\) tenths in 1 whole.
There are \(50\) tenths in 5 wholes.

b. \[ 8 \div 0.1 = 8 \div \frac{1}{10} = 80 \]
There are \(10\) tenths in 1 whole.
There are \(80\) tenths in 8 wholes.

c. \[ 5.2 \div 0.1 = 5.2 \div \frac{1}{10} = 52 \]
There are \(50\) tenths in 5 wholes.
There are \(2\) tenths in 2 tenths.
There are \(52\) tenths in 5.2.

d. \[ 8.7 \div 0.1 = 8.7 \div \frac{1}{10} = 87 \]
There are \(80\) tenths in 8 wholes.
There are \(7\) tenths in 7 tenths.
There are \(87\) tenths in 8.7.

e. \[ 5 \div 0.01 = 5 \div \frac{1}{100} = 500 \]
There are \(100\) hundredths in 1 whole.
There are \(500\) hundredths in 5 wholes.

f. \[ 8 \div 0.01 = 8 \div \frac{1}{100} = 800 \]
There are \(100\) hundredths in 1 whole.
There are \(800\) hundredths in 8 wholes.

g. \[ 5.2 \div 0.01 = 5.2 \div \frac{1}{100} = 520 \]
There are \(500\) hundredths in 5 wholes.
There are \(2\) hundredths in 2 tenths.
There are \(520\) hundredths in 5.2.

h. \[ 8.7 \div 0.01 = 8.7 \div \frac{1}{100} = 870 \]
There are \(800\) hundredths in 8 wholes.
There are \(70\) hundredths in 7 tenths.
There are \(870\) hundredths in 8.7.
2. Divide.

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<tbody>
<tr>
<td>a.</td>
<td>$6 \div 0.1$</td>
<td>b.</td>
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<td>$6 \div \frac{1}{10} = 60$</td>
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<td>d.</td>
<td>$1.7 \div 0.1$</td>
<td>e.</td>
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<td>$1.7 \div \frac{1}{10} = 17$</td>
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<td>g.</td>
<td>$125 \div 0.1$</td>
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<td>$125 \div \frac{1}{10} = 1250$</td>
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3. Yung bought $4.60 worth of bubble gum. Each piece of gum cost $0.10. How many pieces of bubble gum did Yung buy?

$$4.60 \div 0.1 = 4.6 \div \frac{1}{10} = 46$$

He bought 46 pieces of bubble gum.

4. Cheryl solved a problem: $84 \div 0.01 = 8,400$.

Jane said, "Your answer is wrong because when you divide, the quotient is always smaller than the whole amount you start with, for example, $6 \div 2 = 3$ and $100 \div 4 = 25". Who is correct? Explain your thinking.

Cheryl solved the problem correctly. What Jane said is correct, but not always true, especially when dividing with decimals. Cheryl can help Jane by showing her some examples.

$$84 \div 1 = 84$$

$$84 \div 100 = 0.84$$

$$84 \div 0.01 = 8,400$$

5. The U.S. Mint sells 2 ounces of American Eagle gold coins to a collector. Each coin weighs one-tenth of an ounce. How many gold coins were sold to the collector?

$$2 \div 0.1 = 2 \div \frac{1}{10} = 20$$

20 coins were sold to the collector.