

Name: ..... Class: .....

Add, subtract, multiply, and divide decimals.

**a.** Multiply 7.32 by 0.8.

Multiply 9.12 by 0.7.

Multiply 6.55 by 0.2.

Multiply 8.26 by 0.9.

**b.** Divide and round to the nearest tenths.

 $11.52 \div 1.7$ 
 $23.26 \div 1.5$ 
 $33.17 \div 2.5$ 
 $63.24 \div 3.6$ 
**c.** Add

$$\begin{array}{r} 742.17 \\ + 925.95 \\ \hline \end{array}$$
**d.** Subtract

$$\begin{array}{r} 942.87 \\ - 510.77 \\ \hline \end{array}$$
**e.** Subtract

$$\begin{array}{r} 200.0 \\ - 150.0 \\ \hline \end{array}$$

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Add, subtract, multiply, and divide decimals.

**a.** Multiply 7.32 by 0.8.

Let's first of all ignore the decimal point and multiply normally.

$$\begin{array}{r} 7.32 \\ \times 0.80 \\ \hline \end{array} \quad \longrightarrow \quad \begin{array}{r} 732 \\ \times 8 \\ \hline 5856 \end{array}$$

Now, let's count the total number of decimal places in the factors.

There are 3 decimal places.

Move the decimal point 3 places to the left in the answer.

$$\underline{5856} \longrightarrow 5.856$$

So,  $7.32 \times 0.8 = 5.856$

**b.** Divide and round to the nearest tenths.

$$11.52 \div 1.7$$

Move the decimal point 1 place to the right in both.

The dividend and the divisor and finally divide.

$$1.7 \overline{) 11.52} \qquad \begin{array}{r} 6.77 \\ 17 \overline{) 115.20} \\ \underline{-102} \phantom{0} \\ 132 \\ \underline{-119} \\ 130 \\ \underline{-119} \\ 11 \end{array}$$

← To round to the nearest tenths, divide to a hundredths.

← Stop

6.77 = 6.8 in the nearest tenths.

So,  $11.52 \div 1.7 = 6.8$

**c.** Add

$$\begin{array}{r} 742.17 \\ + 925.95 \\ \hline 1,668.12 \end{array}$$

**d.** Subtract

$$\begin{array}{r} 942.87 \\ - 510.77 \\ \hline 432.10 \end{array}$$

**e.** Subtract

$$\begin{array}{r} 200.0 \\ - 150.0 \\ \hline 50.0 \end{array}$$