

## Review Exercise Set 18

Exercise 1: Add.

$$1.346 + 0.52 + 14.9 = ?$$

Exercise 2: Subtract.

$$1.253 - 0.535 = ?$$

Exercise 3: Multiply.

$$0.38 * 0.14 = ?$$

Exercise 4: Divide.

$$4.872 \div 1.4 = ?$$

Exercise 5: Convert  $\frac{8}{5}$  to a decimal.

## Review Exercise Set 18 Answer Key

Exercise 1: Add.

$$1.346 + 0.52 + 14.9 = \mathbf{16.766}$$

$$\begin{array}{r} 1.346 \\ 0.52 \\ +14.9 \\ \hline 16.766 \end{array}$$

Writing the numbers vertically so that the decimal points are lined up will make it easier add up the numbers without getting the decimal places mixed up.

Exercise 2: Subtract.

$$1.253 - 0.535 = \mathbf{0.718}$$

$$\begin{array}{r} \overset{0}{\cancel{1}}.\overset{4}{\cancel{2}}\overset{1}{\cancel{3}} \\ - 0.535 \\ \hline 0.718 \end{array}$$

Exercise 3: Multiply.

$$0.38 * 0.14 = \mathbf{0.0532}$$

$$\begin{array}{r} 0.38 \leftarrow 2 \text{ decimal places} \\ \times 0.14 \leftarrow 2 \text{ decimal places} \\ \hline 152 \\ 38 \\ \hline 0.0532 \leftarrow 4 \text{ decimal places} \end{array}$$

When multiplying the decimals first line the decimals up vertically as shown above. Then multiply 4 times 38 and 1 times 38, but remember to move in to the left one decimal place when you begin multiplying by the 1. Add up the numbers. Each of the numbers being multiplied has 2 decimal places so the product of these numbers should have 4 decimal places.

Exercise 4: Divide.

$$4.872 \div 1.4 = \mathbf{3.48}$$

$$\begin{array}{r} 3.48 \\ 1.4 \overline{)4.872} \\ \underline{-42} \phantom{0} \\ 67 \\ \underline{-64} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

Since we are dividing by a decimal (1.4), we need to first move the decimal point to the right one place in both numbers so that we have 48.72 divided by 14. Then performing long division will give us the answer of 3.48.

Exercise 5: Convert  $\frac{8}{5}$  to a decimal.

$$\frac{8}{5} = 1.6$$

$$\begin{array}{r} 1.6 \\ 5 \overline{)8.0} \\ \underline{-5} \phantom{0} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

To convert the fraction to a decimal we would divide the numerator (8) by the denominator (5).