

Worked Examples

1. The number of shares of the mutual fund Steven bought was 57.138. Read this decimal.

Fifty-seven and one hundred thirty-eight thousandths

Use thousandths because the rightmost place is thousandths.

↑↑↑
thousandths
↑
hundredths
↑
tenths

When reading a decimal, when you get to the decimal point say "and."

2. Phil's first car got 23.32 mpg. Jack's car gets 29.8 mpg. How many more miles per gallon does Jack's car get than Phil's car?

$$\begin{array}{r} 29.80 \\ - 23.32 \\ \hline 6.48 \end{array}$$

6.48 mpg

you need to add on a 0.

When adding or subtracting decimals, line up the decimal points.

3. The size of the wrench to use is listed at .875. Convert this to a fraction. (Express this as a proper fraction or mixed number in lowest terms.)

$$\frac{875}{1000} = \frac{875 \div 5}{1000 \div 5} = \frac{175 \div 25}{200 \div 25} = \frac{7}{8}$$

.875 = $\frac{7}{8}$

Read the decimal and write down what you say. "eight hundred seventy-five thousandths." Then simplify.

4. The container has 2.65 liters of acid in it. Convert this to a proper fraction or mixed number in lowest terms.

$$2.65 = 2 \frac{65}{100} = 2 \frac{13}{20}$$

Same as #3

$$\frac{65 \div 5}{100 \div 5} = \frac{13}{20}$$

2.65 = $2 \frac{13}{20}$

Objectives:

1. How to read decimal.
2. How to add and subtract decimals.
3. How to convert decimals to fractions.