

Example: Convert 3.125 to a fraction.

** Don't worry about the whole number (the 3) until the very end!*

Step One



Rewrite the decimal as a fraction with a denominator of one.

$$\frac{0.125}{1}$$

Step Two



Multiply the numerator and denominator by 10^n , where n equals the number of digits after the decimal.

$$\frac{0.125}{1} \times \frac{1,000}{1,000} = \frac{125}{1,000}$$

Step Three



Simplify

$$\frac{125}{1,000} \stackrel{/25}{=} \frac{5}{40} \stackrel{/5}{=} \frac{1}{8}$$

➤ Then bring back the 3.

$$= 3\frac{1}{8}$$