

Name: _____

Lesson Guide

This lesson guide accompanies the following video lesson:

Converting Decimals to Fractions

► Key Questions and Info:

Quick Review: The difference between a decimal and a fraction

Decimals and fractions are different ways of representing the same thing—a number that is not _____.

DECIMAL**0.3****FRACTION**
$$\frac{3}{10}$$

These are two ways of representing _____.

How to convert any decimal into a fraction using 3 easy steps:

STEP ONE:

Rewrite the decimal as a fraction with a denominator of 1.

STEP TWO:

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

STEP THREE:

Simplify if possible.

► **Example 01:**

Convert 0.25 into a fraction.

STEP ONE:

Rewrite the decimal as a fraction with a denominator of 1.

STEP TWO:

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

STEP THREE: Simplify if possible.

My Answer: _____

► **Example 02:**

Convert 0.375 into a fraction.

STEP ONE:

Rewrite the decimal as a fraction with a denominator of 1.

STEP TWO:

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

STEP THREE: Simplify if possible.

My Answer: _____

► **Your Turn!**

Convert each of the following decimals into a fraction.

1) 0.19

2) 0.63

3) 0.01

4) 0.2

5) 0.5

6) 0.25

7) 0.4

8) 0.48

ANSWER KEY

1.) $\frac{1}{4}$

2.) $\frac{3}{8}$

3.) Your Turn!

1) $\frac{19}{100}$

2) $\frac{63}{100}$

3) $\frac{1}{100}$

4) $\frac{1}{5}$

5) $\frac{1}{2}$

6) $\frac{1}{4}$

7) $\frac{2}{5}$

8) $\frac{12}{25}$