

Name _____

Date _____

Conversion between Decimals, Fractions, Percentages - Step-by-Step Lesson

Complete the chart. Write everything in the simplest form.

Decimal	Fraction	Percentage
0.75		

Explanation:

First, write down the decimal "over" the number 1.

$$\frac{0.75}{1}$$

Decimal to Fraction:

The easiest way to work with this is to try to make that decimal a whole number. So we will multiply the numerator and denominator by 100. This will make $0.75 = 75$ and $1 = 100$. We now know that:

$$\frac{0.75}{1} = \frac{75}{100}$$

We can simplify this fraction further by finding common factors. Let's start with the obvious factor of 5.

$$\frac{75 \div 5}{100 \div 5} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$$

We will then work to simplify.

So, the fraction is = $\frac{3}{4}$.



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Fraction to Percentage:

The easiest way to convert a fraction to a percentage is to divide the numerator by the denominator. Then multiply the result by 100, and add the “%” sign. So let’s put that to the test.

First divide 3 by 4:

$$3 \div 4 = 0.75. \text{ (We could have also referred to our original number.)}$$

Then multiply by 100:

$$0.75 \times 100 = 75$$

Add the “%” sign: 75%

So the percentage is = 75%

So, the answer is:

Decimal	Fraction	Percentage
0.75	$\frac{3}{4}$	75%

