

$$\underline{0.36} = \frac{36}{100} = 36\%$$

0.70

$$0.7 = \frac{7 \cdot 10}{10 \cdot 10} = \frac{70}{100} = 70\%$$

↑
%

$$0.09 = \frac{9}{100} = 9\%$$

$$\underline{4602} = \frac{4602 \cdot 10}{1000 \cdot 10} = \frac{46020}{10000} = 460.2\%$$

Lesson 4.9 - More Conversions

- I will learn the rules to convert between fractions, decimals, & percents.

Rule #1

DECIMALS TO PERCENTS

What percent is:

0.39?

0.39 39%

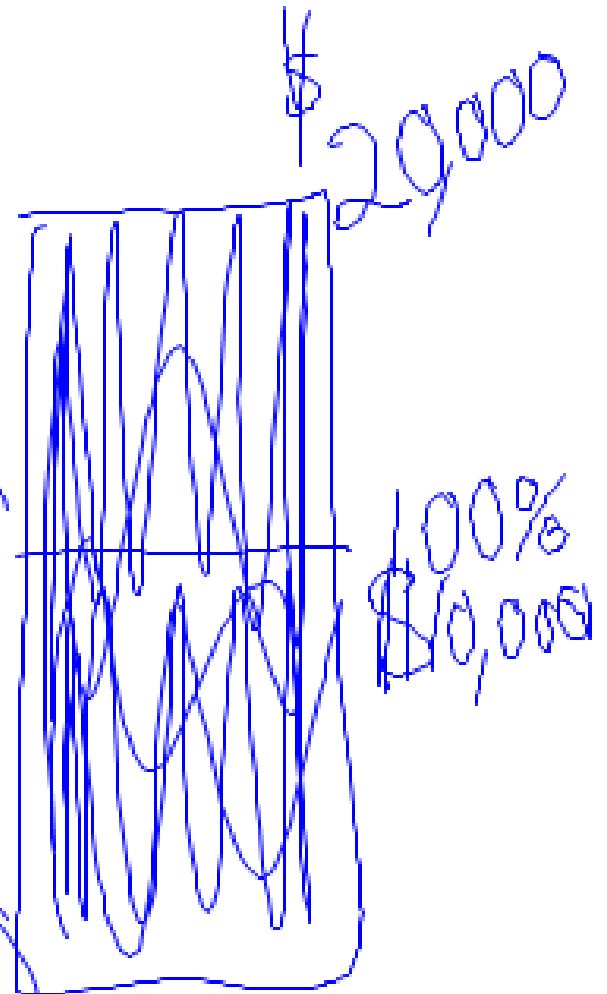
$$0.39 \times 100 = 39\%$$

$\times 100$ or moving
the decimal 2 places
to the right

$$\underline{2.85} = 285\%$$

$$0.6 = 0.60 = 60\%$$

$$0.007 = \times 100 = 0.7\%$$



$$74 \times 100 = 7,400\%$$

7400

$$1 \times 100 = 100\%$$

$$\sim 0.5 \quad \sim 50\% \quad \sim 0.5$$

$\frac{50}{100}$

~~$\frac{50}{100}$~~

Rule #2

PERCENTS TO DECIMALS

What are these percents as decimals:

46%?

$$4600 = 0.46$$

— drop the %

and divide by 100, or move the decimal 2 spots to the left.

$$7\% = 7 \div 100 = \frac{7}{100} = \underline{0.07}$$

$$\underbrace{00070}_{0.07} = 0.07$$

$$\cancel{250\%} = 250 = \underline{2.5}$$

Rule #3

FRACTIONS TO PERCENTS

$$\frac{3}{4} = \frac{25}{25} \cdot \frac{x}{100}$$

$$\frac{3}{4} = \frac{75}{100} = 75\%$$

$$\frac{2}{3} = \frac{x}{100}$$

$$3 \overline{) 21000} = 6666 = 66.66\% \approx 67\%$$

Handwritten long division showing 3 dividing 21000 to get 6666 with a remainder of 20, and a final remainder of 18.

$$\frac{15}{12} = \frac{x}{100}$$

$$12 \sqrt{15.000}$$
$$1.25 = 12.5\%$$

$$12 \overline{) 15.000}$$
$$\underline{12}$$
$$30$$
$$\underline{24}$$
$$60$$
$$\underline{60}$$
$$0$$

%

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§ Study Link 4.9