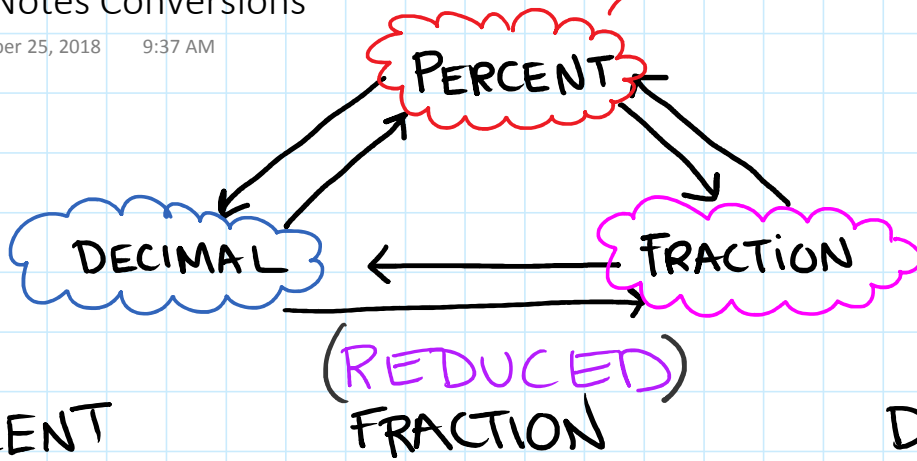


4.2 Notes Conversions

September 25, 2018 9:37 AM

shows Part to Whole ratio



PERCENT

(REDUCED)
FRACTION

DECIMAL

37%

$$\boxed{\frac{37}{100}}$$

$37 \div 100$

$$\boxed{0.37}$$

28%

$$\frac{28}{100} \stackrel{\div 4}{=} \boxed{\frac{7}{25}}$$

$7 \div 25$

$$\boxed{0.28}$$

5%

$$\frac{5}{100} \stackrel{\div 5}{=} \boxed{\frac{1}{20}}$$

$$\boxed{0.05}$$

250%

or

$$2 \frac{50}{100} \stackrel{\div 50}{=} \boxed{2 \frac{1}{2}}$$

$$\frac{250}{100} \stackrel{\div 5}{=} \frac{5}{2} = 2 \frac{1}{2}$$

$$\boxed{2.5}$$

Must have a whole number in front of frac if your over 100%.

the ONLY time you have a number left of DEC is a value over 100%.

$3 \div 4$

same as \rightarrow \cap 75%

$$\underline{.75} \stackrel{\times 100}{=} \frac{75}{100} \stackrel{\div 25}{=} \boxed{0.0075}$$

$\frac{3}{4}\%$ $\xrightarrow{\text{same as}}$ 0.75%

Nothing there

Very tiny less than 1%

$$\frac{.75}{100} \times 100 = \frac{75}{10,000} \div 25 = \frac{3}{400}$$

$$\frac{3}{400}$$

Nah - Nah No Decimals in Fractions!
Move Decimal Right by X10

Numerator is amount
 38%
DENOMINATOR of 100 turns into %

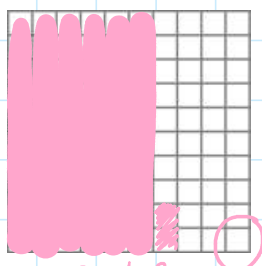
$$\frac{38}{100} \div 2 = \frac{19}{50}$$

value is NUMERATOR
 0.38

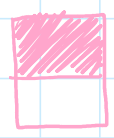
Place Value HUNDRETHS

So Denominator of 100

Decimal X 100 is PERCENT Every single Time!



60 + 2



$$\frac{5}{8}$$

$$5 \div 8 =$$

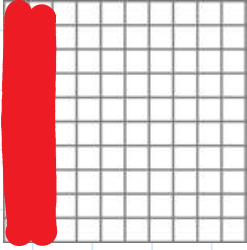
$$0.625$$

$$0.625 \times 100$$

62.5%

or $62\frac{5}{10}\%$ or $62\frac{1}{2}\%$

20



$$\frac{1}{5}$$

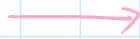
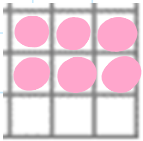
$$1 \div 5$$

$$0.2$$

$$0.2 \times 100$$

20% ←

given:



$$\frac{6 \text{ shaded}}{9 \text{ boxes}}$$

$\div 3$

$$\frac{2}{3}$$

$$6 \div 9$$

$$\text{or } 2 \div 3$$

$$0.\overline{6}$$

$$0.6666 \times 100$$

~~60%~~

$$66.\overline{6}\%$$



← only 25 spots!

$$\frac{10}{25}$$

Convert

$$\frac{2}{5}$$

Reduce

$$\frac{4}{10}$$

Same as

given:

Place value?

$$0.4$$

↑ tenths