

# M8 - 4.1 - Converting Fractions, Decimals & % Notes

## Fraction to decimal:

$\frac{1}{10} = 0.1$  Place Value **Tenths Place** Bottom goes into Top **Bottom** | **Top** Long Division  $10 \overline{) 1.0} = 10 \underline{) 10} 0$

$\frac{3}{4} = 0.75$  Calculator  $4 \overline{) 3.00} = 4 \underline{) 30} 0 = 4 \underline{) 300} 0$

$\frac{3}{4} = \frac{75}{100} = 0.75$  Equal Fractions Place Value **Hundredth Place**

## Decimal to Fraction:

$0.63 = \frac{63}{100}$  Place Value **Hundredth Place**  $100 \overline{) 63.00} = 100 \underline{) 630} 0 = 100 \underline{) 6300} 0$  Check Long Division Calculator

## Decimal to Percent

$0.06 = \frac{6}{100} = 6\%$  Place Value **Hundredth Place**  $\frac{\%}{100}$   $0.06 \times 100 = 6\%$  Multiply decimal by 100  $0.06 = 6\%$  Move decimal 2 places to the right

## Percent to Decimal

$19\% = \frac{19}{100} = 0.19$   $\frac{\%}{100}$  Place Value **Hundredth Place**  $19 \div 100 = 0.19$  Divide percent by 100  $19\% = 0.19$  Move decimal 2 places to the left

## Fraction to percent:

$\frac{1}{10} = \frac{10}{100} = 10\%$  Equal Fractions  $\frac{\%}{100}$  Long Division  $10 \overline{) 1.0} = 10 \underline{) 10} 0$   $0.1 = 10\%$  Multiply decimal by 100

## Percent to Fraction

$75\% = \frac{75}{100} = \frac{3}{4}$   $\frac{\%}{100}$  Equal Fractions **OR**  $75\% = 0.75 = \frac{75}{100} = \frac{3}{4}$  Divide percent by 100 Place Holder Equal Fractions