

Math Review

Part 2: Decimals, Fractions & Percent

11

Decimals, Fractions & Percent

All used to represent parts of the whole number.

To convert a # into a % you need to x by 100%

$$7/8 = 0.875 \times 100\% = 87.5\%$$

To convert a % into a # you need to \div by 100%

$$47\% \div 100\% = 0.47 \text{ or } 47/100$$

12

Fractions

Numerator
Denominator

Mixed Numbers

Were the fraction contains wholes and a parts of a whole.

Whole **5** $\frac{\mathbf{3}}{\mathbf{7}}$ How many part you have
How many parts make a whole

Improper Fractions

Were the Numerator > Denominator. Multiply the # of wholes by the # of parts that make the whole then add how many parts you started with.

$$5 \frac{3}{7} = \frac{(5 \times 7) + 3}{7} = \frac{38}{7}$$

13

Operations with Fractions

*Always convert Mixed #'s into Improper Fractions before doing any operation.

Adding & Subtracting

Fraction MUST have a common denominator

Multiplying

Multiply Numerator to Numerator and Denominator to Denominator (i.e. straight across)

Dividing

Flip the second fraction (i.e. reciprocal) and change the \div into a \times sign then use multiplication.

14