# Unit 1: Unit Price and Currency Exchange <br> Wednesday, June 6, 2018 <br> 10:56 AM 

## 1.1: Proportional Reasoning

Be able to:

- Simplify fractions
- State a fraction in lowest terms
- Solve for an unknown in an equation containing 2 fractions.

- Use ratios, proportions, and rates to solve problems
- Ratio = comparison between two numbers measured in same units
- Proportion = fractional statement between two ratios (See above)
- Rate = comparison between two numbers measured in different units.


## 1.2: Unit Price

Be able to:

- Find the price of one item that is sold in large quantities.
- Set up a proportion (equivalent fractions)
- Use unit price to find what size of an item is a better deal.
- Set up a proportion (equivalent fractions)
- Use a unit price to determine to cost of a larger quantity.
- Set up a proportion (equivalent fractions)


## 1.3: Setting a Price

Be able to:

- Turn a percentage into a decimal
- Divide by 100

- Calculate the percentage of a certain quantity.
- Turn the percent into a decimal, and multiply your total amount.

- Calculate what percentage a number is of a total.
- Make a ratio of the number over the total, divide and multiply by 100

What percent is 20 out of 500 ?

$$
\frac{2 \theta}{500}=0.04 \times 100=4 \%
$$

- Calculate the percent of a markup
- Markup = the amount that a dealer will add to the cost of an item
- Mark up + cost = selling price
- Mark up will always be a percent of the cost!
- Determine the selling price of an object by adding the markup to the cost of an item
- Calculate taxes and add to the price of an item
- Taxes will be a percent of the selling price


## 1.4: On Sale!

Be able to:

- Determine the amount being saved off an item on sale for a percentage off.
- Calculate the percentage
- Determine the sale price of an item by subtracting the percent off.
- Determine discount rate of a sale.
- Discount rate = the percent being saved from the original price


## 1.5: Current Exchange Rates

Be able to:

- Determine the exchange rate of currency by using proportional reasoning or unit pricing.
- Know the difference between a selling price and a buying price.
- Selling price = the rate that the bank sells currency
- Buying price = the rate that the bank buys back currency

