Lesson 1.1 Notes (Rates)

Introduction: How many times does your heart beat in 1 minute?

Key Vocabulary:

- Rate A ratio that compares two quantities with different kinds of units
 - When you found your pulse, you were actually finding your *heart rate* (the number of beats per minute)
- Unit Rate A rate that is simplified so that it has a denominator of one

Common Unit Rates								
Rate	Unit Rate	Abbreviation	Name					
# of miles # of hours	Miles per hour	$\frac{mi}{h}$ (or mph)	Average speed					
# of miles # of gallons	Miles per gallon	$\frac{mi}{gal}$ (or mpg)	Gas mileage					
# of dollars # of pounds	Price per pound	$\frac{dollars}{lb}$	Unit price					

Examples:

1. Jennifer biked 24 miles in 4 hours. If she biked at a constant speed, how many miles did she ride in one hour?

- 2. Find each unit rate.
 - a. \$300 for 6 hours of work

b. 160 miles on 8 gallons

3. Find the unit price if it costs \$2 for eight juice boxes.

4. The prices of 3 different bags of dog food are given in the table. Which size bag has the *lowest* price per pound?

40	16	6	4016	2	\$1,23/16	7	0611
20	16	a	123.44	=	\$1.17/16	=>	Bag
8	16	0	\$ 9.50	Name of the last o	\$1.24/14		

Bag Size (lb)	Price (\$)
40	49.00
20	23.44
8	9.88