

We will watch the video TWICE! The first time, just watch the video, the second, word through the problems below

https://www.youtube.com/watch?v=7N0IRJLwpPI

what is 3.45 pounds expressed in grams?

How many miles is 15,100 feet?

On a certain day, the exchange rate between US Dollars and Euros is 1 USD = 0.78 EUR. On that day, how much is 125 Euros worth in US Dollar?

## **DIMENSIONAL ANALYSIS PROBLEMS**

Conversions Factors			
1 hr = 60 min	1 min = 60 sec	1 ton = 2000 lbs	7 days = 1 week
24 hrs = 1 day	1 kg = 2.2 lbs	1 gal = 3.79 L	264.2 gal = 1 cubic meter
1 mi = 5,280 ft	1 kg = 1000 g	1 lb = 16 oz	20 drops = 1 mL
365 days = 1 yr	52 weeks = 1 yr	2.54 cm = 1 in	1 L = 1000 mL
0.621 mi = 1.00 km	1 yd = 36 inches	12 inches = 1 feet	1 mL = 1 cm <sup>3</sup>

You must show all work

- 1. Suppose a bug is 5 inches long. What is its length in feet?
- 2. You just had 5 days off from school. How many hours did you have off from school?
- 3. Denver and Los Angeles are 830 miles apart. What is this distance in kilometers?
- 4. The moon is 250,000 miles away. How many feet is it from earth?
- 5. A family pool holds 10,000 gallons of water. How many cubic meters is this?
- 6. Write your own problem and solve!!