

Name: \_\_\_\_\_ Section: \_\_\_\_\_

## Conversions Activity (Dimensional Analysis) QUESTIONS

### Conversion Factors (Equivalent Measurements)

#### Distance/Length

- 12 inches = 1 foot
- 3 feet = 1 yard
- 1760 yards = 1 mile
- 1 mile = 1.61 kilometer
- 1 inch = 2.54 centimeters
- 1 kilometer = 1000 meters
- 5280 feet = 1 mile

#### Mass

- 16 ounces = 1 pound
- 2000 pounds = 1 ton
- 1 Newton = 100 grams
- 1 pound = 454 grams
- 2.20 pounds = 1 kilogram
- 1 kilogram = 1000 grams

#### Volume

- 1.06 quarts = 1 liter
- 1 gallon = 3.78 liters
- 2 pints = 1 quart
- 42 gallons = 1 barrel
- 4 quarts = 1 gallon
- 1000 Liters = 1 kiloliter

All time Conversion Factors must be derived by each group

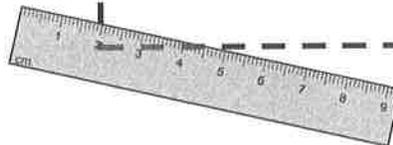
#### MASS

1. Convert 5 pounds to kilograms
2. Convert 26,000 ounces to tons
3. Convert 12 kilograms to Newtons
4. Convert 2 tons to grams
5. Convert 15,000 ounces to pounds



#### DISTANCE/LENGTH

1. Convert 25 centimeters to inches
2. Convert 2000 feet to miles
3. Convert 10 miles to meters
4. Convert 3000 feet to centimeters
5. Convert 26 miles to kilometers



#### VOLUME

1. Convert 17 kiloliters to gallons
2. Convert 3 barrels to quarts
3. Convert 6 liters to pints
4. Convert 50 pints to kiloliters
5. Convert 200 liters to barrels



#### TIME

1. Convert 230 seconds to minutes
2. Convert 3 centuries to years
3. Convert 6,300 minutes to weeks
4. Convert 2 decades to weeks
5. Convert 1 year to seconds

