

Notes and Problems on Measurement Video

Metric Measurements of Length

1 meter, m

100 centimeter (cm) = 1 meter (m)

1000 meter (m) = 1 kilometer (km)

US Measurements of Length

12 inches = 1 foot

3 feet = 1 yard

5280 feet = 1 mile

Conversions of Length

Feet = meter x 3.28

Meter = feet/3.28

1 mile – 1.61 km

Measurements of Time

Good news! Metric and U.S. measurements are the same

60 Seconds (s) = 1 minute; 60 minutes = hour (hr)

Measurements of Speed

m/s, km/hr

ft/s, mile/hr

Measurements of Mass

Metric: 1000 gram (gm) = 1 kilogram

Measurements of Force (Weight)

Metric: Newton (N)

US: pound (lb)

Measurement of Temperature

Centigrade ($^{\circ}\text{C}$) [ice melts at 0C; water boils at 100C]

Fahrenheit ($^{\circ}\text{F}$)

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32)/1.8$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$$

Problems:

1. How many centimeters are there in 340 meters?
2. How many centimeters are there is 2 kilometers?
3. How many meters in 99 feet?
4. How many meters in 99 yards?
5. A car travel 80 kilometers in 2 hours, what is the speed in kilometers per hour?
6. A car travel 80 kilometers in 2 hours, what is the speed in kilometers per seconds?
7. If the temperature is 30 degrees C, what is the temperature in Fahrenheit?