Summer Review Sheet #2
SI units and unit conversions

Answers are provided on the second sheet. Please try to do the worksheet without referring to them, because you'll be expected to know this stuff the first day of school!

1)   Name the SI units for distance, mass, and temperature.

2)   Define the following SI unit prefixes:

   a)   kilo

   b)   centi

   c)   mega

   d)   deci

3)   How many kilometers are there in 3.34×10^5 cm?

4)   How many inches are there in 62 centimeters? There are 2.54 centimeters in 1 inch.

5)   How many kilometers are there in 34 inches?

6)   How hot is 450^0 C in Kelvin?

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1) Name the SI units for distance, mass, and temperature.
Distance is measured in meters, mass is measured in kilograms (this is the one case where a prefix is actually used as the base unit), and temperature is measured in degrees Celsius (or Kelvin).

2) Define the following SI unit prefixes:

   a) kilo   **one thousand, 1,000, 10^3**

   b) centi   **one hundredth, 0.01, 10^{-2}**

   c) mega   **one million, 1,000,000, 10^6**

   d) deci   **one tenth, 0.1, 10^{-1}**

3) How many kilometers are there in 3.34×10^5 cm?
3.34 km

4) How many inches are there in 62 centimeters? There are 2.54 centimeters in 1 inch.
24.4 inches

5) How many kilometers are there in 34 inches?
8.64×10^{-4} km

6) How hot is 450^0 C in Kelvin?
450 + 273 = 723 K