

### 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  $3.34 \times 10^5$  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  $450^{\circ}\text{C}$  in Kelvin?



## Unit Conversions Worksheet

- 1) How many inches are there in 45.6 cm? (There are 2.54 cm in 1 inch)
  
  
  
  
  
  
  
  
  
  
- 2) How many centimeters are there in  $1.23 \times 10^{-6}$  kilometers?
  
  
  
  
  
  
  
  
  
  
- 3) How many hours are there in 34.5 years?
  
  
  
  
  
  
  
  
  
  
- 4) How many inches are there in 355 millimeters?
  
  
  
  
  
  
  
  
  
  
- 5) How many milliliters are in a cubic meter? (There are 1,000 L in  $1 \text{ m}^3$ )
  
  
  
  
  
  
  
  
  
  
- 6) How many miles are there in  $3.44 \times 10^8$  inches? There are 0.61 miles in 1 km).