

Conversions Worksheet #1

Conversion Factors

$$1 \text{ L} = 1000 \text{ cm}^3 = 1000 \text{ ml}$$

$$1 \text{ ml} = 1 \text{ cm}^3$$

$$2.54 \text{ cm} = 1 \text{ inch}$$

$$1 \text{ m} = 39.37 \text{ inches}$$

$$1 \text{ km} = 0.622 \text{ miles}$$

$$454 \text{ g} = 1 \text{ pound}$$

$$1 \text{ kg} = 2.205 \text{ pounds}$$

$$1 \text{ L} = 1.064 \text{ quarts}$$

$$1 \text{ mile} = 5280 \text{ feet}$$

Convert the following: (Show all of your work on a separate sheet of paper)

	<u>From:</u>	<u>To:</u>
1)	52.0 pounds	grams
2)	16.7 grams	pounds
3)	187.0 cm	inches
4)	53.5 kilograms	pounds
5)	100 meters	yards
6)	3.5 hours	seconds
7)	88 L	quarts
8)	350.0 meters	feet
9)	8.25 inches ²	cm ²
10)	60 miles/hour	kilometers/hour
11)	24 ml	cm ³
12)	56 cm ³	inches ³

Challenge:

13)	45 miles/hour	feet/second
14)	14.7 pounds/inch	grams/cm

Scientific Notation

Write each number in scientific notation:

11) 200

12) 0.0056

13) 25,900,000

14) 14

15) 0.005082

Write each number as a decimal

16) 3.5×10^4

17) 6.77×10^{-5}

18) 3.034×10^{-8}

19) 1.50×10^3

20) 6.02×10^{23}