

Unit Conversion Worksheet

Introductory Unit; Lesson 3

Part One: Change the following numbers to the appropriate units of measurement.

- 1) 78.36 liters = _____ milliliters
- 2) 12.3 meters = _____ centimeters
- 3) 76.3 millimeters = _____ centimeters
- 4) 143.2 meters = _____ millimeters
- 5) 312 milligrams = _____ grams
- 6) 15.3 milliliters = _____ liters
- 7) 7.5 grams = _____ milligrams
- 8) 9.4 nm = _____ m
- 9) 6.32 μm = _____ km
- 10) 16 s = _____ ks
- 11) 750 000 mL _____ L
- 12) 457 km _____ mm

Part Two: Convert the following via Dimensional Analysis. Show all work.

- 13) 21 km/h = _____ m/s
- 14) 56 m/s = _____ km/h
- 15) 12 km/h = _____ m/s
- 16) 445 m/h = _____ m/s
- 17) 87 km/day = _____ km/h
- 18) 91 km/h = _____ m/s

Part Three: Complete the following multi-step dimensional analysis conversions. Be sure to include all work.

- 19) How many inches are there in a football field (100 yards)? (1 yard = 3 feet; 1 foot = 12 inches)
- 20) In England, a person's weight is commonly given in stones. One English stone is equal to 14 lbs. If an English friend tells you he weighs eleven stones, what is his weight in:
 - a. Pounds?
 - b. Kilograms? (1 kg = 2.20 lb)