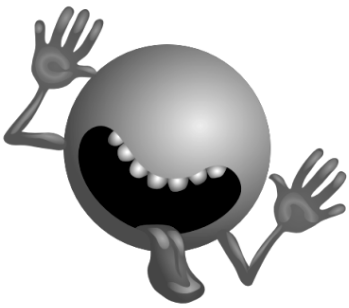
Practice Worksheet 4.2 – Unit Conversion

You may need to look up some unit conversion factors to complete these unit conversion problems:

1. Convert 4.56 L to mL
2. Convert 12400 m to km
3. Convert 35.6 min to seconds
4. Convert 15800 s to hours
5. Convert 85 km to meters
6. Convert 1.2 hours to seconds
7. Convert 1.2×10^{5} mm to meters
8. Convert 8.9×10^{3} days to minutes
9. Convert 450 g to kilograms
10. Convert 15.6 inches to centimeters
11. Convert 65 kmh^{-1} to ms^{-1}
12. Convert 25 ms^{-1} to kmh^{-1}
13. Convert the speed of light (3.0×10^{8} ms^{-1}) to km day^{-1}
14. Convert 565 kPa to atmospheres (atm)
15. Convert 987 ft to meters
16. Convert 123 lbs to kilograms
17. Convert 76 ^{0}F to Celsius
18. Convert 28 ^{0}C to Kelvin
19. Convert 8763 mL to dm^{3}
20. Convert 1.3 hours to minutes

IN A FAR AWAY GALAXY ON THE PLANET QUAIZZORP

One Nard (Nd) is 8 Quats (Q) long, therefore 1 Nd = 8 Q. A mushy can run 60 Nards in one minute (60 Nd min^{-1}). Answer the following questions in the space provided. Don't forget units.



1. How many Quats per second can a mushy run?

2. Fred owns a mushy pasture measuring 10.0 Nards by 12 Nards (or 120 Nd^{2}). How many square Quats (Q^{2}) does Fred own?

3. All mushys weigh exactly 12 Zugs. Fred sells 80.2 % of his 150 mushys at a rate of 3.2 $nickers per Zug. How many $nickers did Fred get?

4. Fred's mushy mashing machine can manage to mash 6.0 mushys in 11 minutes. How many Zugs of mashed mushy can it produce in 1.0 hours?