## Conversions using the Metric System Practice Problems

Now you get a chance to work out some problems. You may use a calculator if you would like. Study each of these problems carefully; you will see similar problems on the lesson knowledge check. You will need paper and a pencil to complete the following practice problems.

1) The weight of a flash drive is 3 grams. Convert the measurement to centigrams.
2) The distance between Cell Phone Company $A$ and $B$ is 87 m . Convert the measurement to cm.
3) 76.2 m of -CL2 in-wall speaker cable was installed in an office for background music.
A) Calculate that length in decameters.
B) Calculate that length in centimeters.
4) A wireless router supports a range of up to $4,572 \mathrm{~cm}$ indoors.
A) Calculate that length in meters.
B) Calculate that length in kilometers.
5) When storing and stacking laptop computers you need to take into account the mass of the object. A typical laptop computer has a mass of about 4 kg .
A) Calculate that mass in grams.
B) Calculate that mass in milligrams.
6) According to specifications the voltage drop for any wire within office cannot exceed 1 Volt. A typical 10 AWG copper wire can only be run 152.4 m before a voltage drop of 1 volt occurs.
A) Calculate that length in hectometers.
B) Calculate that length in decimeters.
7) Convert 411 kg to g .
8) Convert 5.626 I to cl .
9) Convert 80 ml to kl .
10) Convert 2.5 cm to m .
11) Convert $16,005 \mathrm{mg}$ to g
12) Convert 48.66 L to daL
13) Convert 11.161 kL to L
14) Convert 521.85 cm to mm
15) Convert 1.26 dag to dg
16) Convert 99.04 dam to cm
17) Convert 0.51 kL to daL
18) Convert 0.05 m to dm
19) Convert 0.001 km to mm
20) Convert 8.106 hg to cg
21) Convert 17.0186 kL to mL
22) Convert 3 cm to m
23) Convert 9 mm to m
24) Convert 4 g to mg
25) Convert 2 L to kL

## Resources:

Measurement and Geometry: Area and Volume of Geometric Figures and Objects by Ellis, W., \& Burzynski, D. © 2010 retrieved from http://cnx.org/content/m35023/1.2/ and used under a Creative Commons Attribution http://creativecommons.org/licenses/by/3.0/. This is an adaption of the lesson titled, Metric Measurement, by the National Information Security and Geospatial Technologies Consortium (NISGTC) is licensed under the Creative Commons Attribution 3.0 Unported License. To view a copy of this license, visithttp://creativecommons.org/licenses/by-nc-sa/3.0/.

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