

Chemistry – Unit 1 – Worksheet 5

Size of Things

For this worksheet, you will need to go to the site –

<http://www.vendian.org/howbig/> to answer the following questions.

Part 1 – Real World

Click on the link to Real World; make sure that you are looking at the sheet of graph paper.

Each of the tiny squares on the paper is 1 mm (10^{-3} m) on a side. Examine the objects whose approximate size is given (~ 100 mm means the object is approximately 100 millimeters wide).

1. Using the graph paper as a measuring tool, estimate the diameter of the following in mm:
quarter 25mm golf ball 42mm ping pong ball 40mm
2. Use the ruler below the objects to estimate the diameter of each in inches.
quarter 1 in golf ball 1.8 in ping pong ball 1.7 in
3. How long is the 5 Euro bill in mm 120, in cm 12, in inches 4.7?

Part 2 – Micro World

Go to the top of the page and click on the *micro* link. Each of the tiny squares on the graph paper is 1 μm (10^{-6} m) on a side. Examine the objects whose approximate size is given (~ 10 μm means the object is approximately 10 micrometers wide).

1. Estimate the length of the paramecium in μm . You might have to use the Pythagorean Theorem to find this. 163 μm Use the conversion factor $1\text{m} = 10^6\mu\text{m}$ to change this length to m.

$$163\ \mu\text{m} \times \frac{1\ \text{m}}{10^6\ \mu\text{m}} = 1.63 \times 10^{-4}\ \text{m} \text{ or } 0.000163\ \text{m}$$

Why is it more convenient to express this value in μm ?

Because μm is closer to the size of the object measured.

2. Lower on the page are some drops from an inkjet printer with a resolution of 1200 dpi. Estimate the diameter (in μm) of such a drop 20 μm
3. Estimate the length of the left-most human chromosome. ~10 μm
4. The author shows the thickness of a sheet of aluminum foil.

What is this in μm ?

30 μm Use the conversion factor $1\text{m} = 10^6\mu\text{m}$ to change this $30\ \mu\text{m} \times \frac{1\ \text{m}}{10^6\ \mu\text{m}} = 3.0 \times 10^{-5}\ \text{m}$ thickness to m.

Now, convert this thickness to cm ($1\text{m} = 100\ \text{cm}$). How does this compare to the value you obtained?

$$3.0 \times 10^{-5}\ \text{m} \times \frac{10^2\ \text{cm}}{1\ \text{m}} = 3.0 \times 10^{-3}\ \text{cm}, \text{ this is } 2\text{x} \text{ as thick as the foil.}$$

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Joacim Rocklöv



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