Plentiful Plankton

You need: a ruler, a calculator

Zooplankton are tiny animals that are very difficult to see with the naked eye. Their lengths are measured in millimetres and micrometres using a microscope.

Here is a planktonic larva seen 15 times its actual size:

1 millimetre = 1 000 micrometres (1 000 µm)

Petalomera wilsoni: sponge crab

(larval stage)

- a. Work out its actual length in millimetres. (Measure between the dotted lines.)
 - **b.** What would this length be in micrometres?



2. Here are some other zooplankton, all from Wellington Harbour. For each creature, the magnification is given. Work out its actual length in millimetres and micrometres.







3. Work out the magnification for these two zooplankton:



Ebalia laevis: nut crab (larval stage, rear view) Actual length: 1.1 mm



Obelia geniculata: knotted thread hydroid Actual length: 2 800 micrometres