

BIO244 Microscope Worksheet

Name:

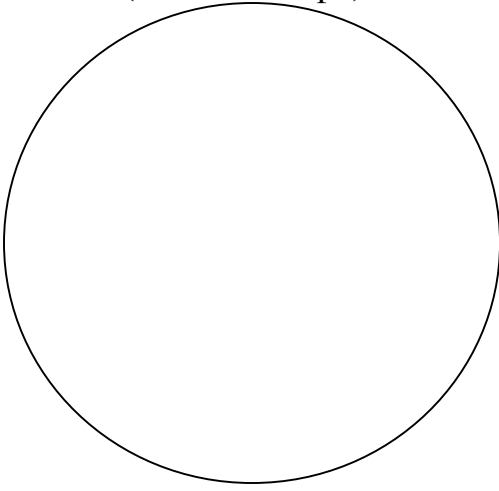
Note: we generally have no use for scanning power (4x objective) in a microbiology course

	Low Power	High Power	Oil Immersion
Magnification of the ocular lens			
Magnification of objective lens			
Total magnification			
Length of 1 unit (smallest space between two lines) on the ocular micrometer in μm			

over \longrightarrow

Organisms and structures of varying sizes have been provided for your observation. Draw each using a magnification that makes sense and fill in the requested information.

Dinoflagellate
(red, star-shape)



Objective lens:

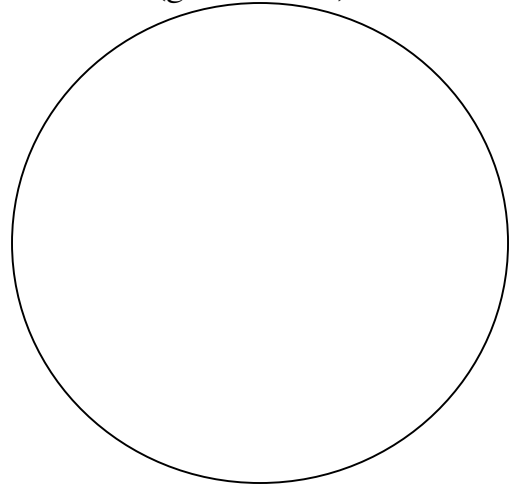
Total Magnification:

Length of one unit on micrometer:

of units long object is:

Size of object:

Lilium Pollen
(green ovals)



Objective lens:

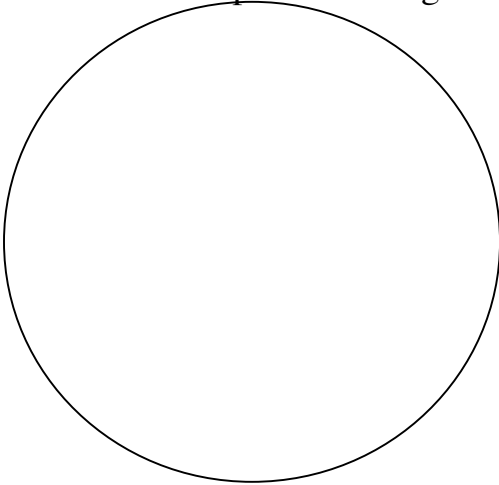
Total Magnification:

Length of one unit on micrometer:

of units long object is:

Size of object:

Frog Blood (measure the purple oval
nucleus of the pale oval frog RBC)



Objective lens:

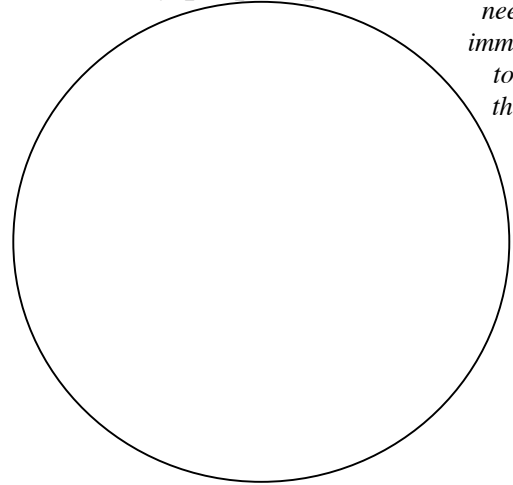
Total Magnification:

Length of one unit on micrometer:

of units long object is:

Size of object:

Streptococcus Bacteria
(tiny purple spheres)



*You will
need oil
immersion
to see
these!*

Objective lens:

Total Magnification:

Length of one unit on micrometer:

of units long object is:

Size of object: