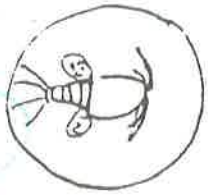
Name/Period:_____

Date:_____

ESTIMATION OF SIZE

1. An object occupies ¾ of the low power field of view. which is 2.0 mm in diameter. The size of the object is?

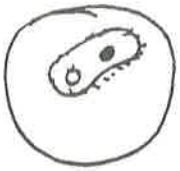
(¾)(2.0mm) = 1.5 mm



Cyclops

2. A specimen under a microscope occupies ½ of the field of view. If the diameter of the field of view is 700µm, what size is the specimen?

(½)(700µm) = 350µm



Paramecium

3. A microscope has a field of view with a diameter of 2000µm under low power. If a cell takes up 0.25 of the field of view, how long is the cell?

(0.25)(2000µm) = 500µm

Onion Cells

4. An object's length is ¾ of the diameter of the low power field of view, which is 2.0 mm in diameter. The size of the object is?

(¾)(2.0mm) = 1.5 mm

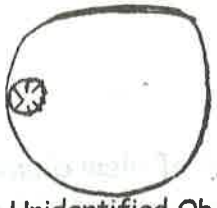
Geranium Epidermal Cell

5. An object, which appears circular occupies 1/8 of the 500x field of view. The 100x field of view is 960 µm. what is the diameter of the object?

(100x)(960µm) = (500x)?

? = 192µm (⅛)

24µm



Unidentified Object

6. An object occupies ¼ of the low power field of view, which is 4.0 mm in diameter. The size of the object is?

(¼)(4.0mm) = 1.0mm

Letter "e"