

Microscopes & Magnification

Field of view is the diameter of the circle you can see when looking down the microscope lens.

Set up a microscope and ensure the low power objective lens is in use. Use a transparent ruler or a slide with measuring tape to measure the size of the field of view.

Low power lens field of view = _____ mm

There are 1000 μm in 1mm. Calculate the field of view in μm .

$$\begin{aligned} \text{Field of view in } \mu\text{m} &= \text{field of view in mm} \times 1000 \\ &= \quad \quad \quad \times 1000 \\ &= \quad \quad \quad \mu\text{m} \end{aligned}$$

Calculating the field of view is important as it allows you to estimate the length and width of the cells in your drawing.

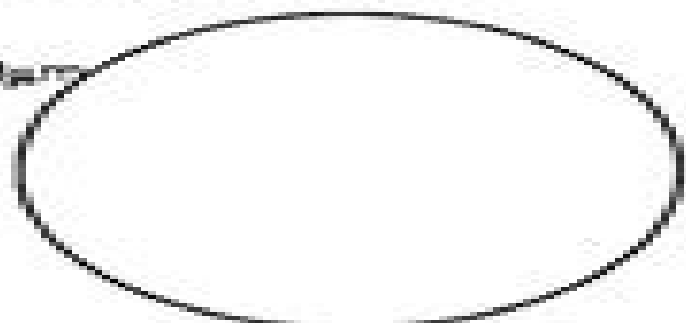
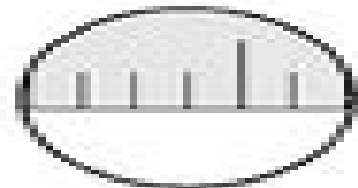
In the example here, the field of view is 1000 μm .

12 cells are visible in the field of view. The width of a cell is therefore $1/12$ of $1000\mu\text{m}$.

Width of cell = $1000/12$ = $83.3\mu\text{m}$
Low power lens (x4)

Field of view = mm

Field of view = 2.5 mm



Teacherweb Microscopic Measurement Answers

Martin Kern, Jörg Trempler



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