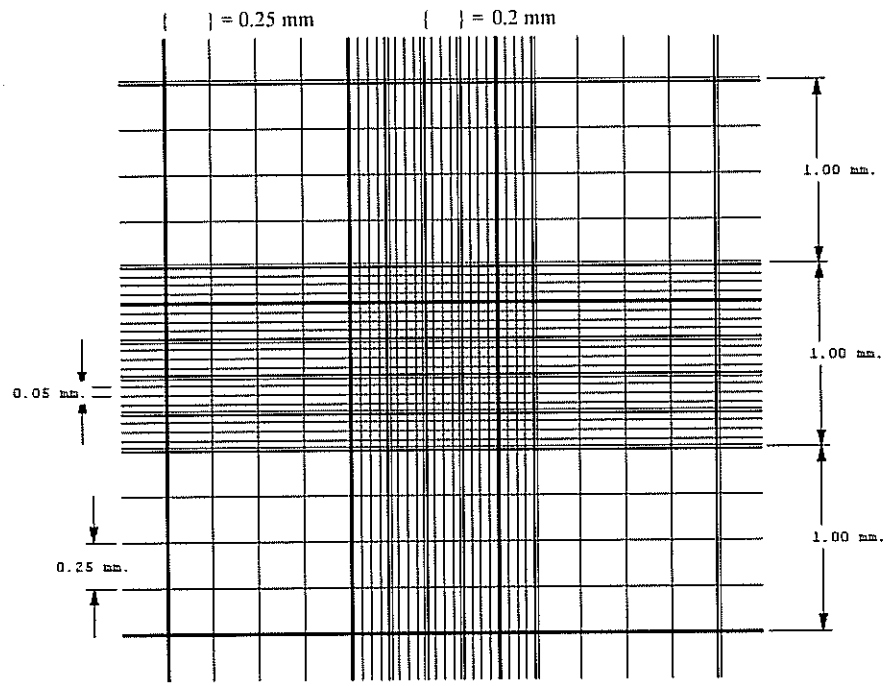
DO THE MATH
(Keep It Simple, Sweetie)

$$\text{Count/mm}^3 = \frac{\text{(\# of cells counted) x (dilution factor)}}{\text{(\#of squares counted) x (Volume mm}^3\text{)}}$$

Volume=Area x Depth
Area=Height x Width of squares counted
Depth= 0.1 mm

$$\text{Acceptable} = \frac{\text{(\# of cells counted) x (dilution factor)}}{\text{(\# of squares counted) x Area x } \textit{(Depth 0.1 mm)}}$$

$$\text{Or} = \frac{\text{(\# of cells counted) x (dilution factor) x } \textit{(Depth 10)}}{\text{(\# of squares counted) x Area}}$$



NO

$$R = \frac{88+94}{2} = \frac{91 \times 1000}{(4/16) \times 1 \times 0.1} = 3640{,}000$$

$$R = \frac{42+44}{2/5 \times 0.1} = 2150$$

$$R = \frac{75+76}{(1/25) \times 0.1 \times 2} = 18{,}875$$

$$R = \frac{(101+118) \times 20}{(5/25) \times 0.1 \times 2} = 109{,}500$$

YES

$$W = \frac{204+205}{(18) \times 1 \times 1 \times 0.1} = 227$$

$$W = \frac{(21+19) \times 50}{(10) \times 1 \times 1 \times 0.1} = 2000$$

$$W = \frac{1+1}{18 \times 1 \times 1 \times 0.1} = 1$$

$$R = \frac{100+102}{0.4 \times 0.1} = 5200$$