



Equations for deriving unknown population N, two systems.

$$\frac{A}{N} \times \frac{B}{N} = \frac{M}{N}$$

$$\frac{AB}{N^2} = \frac{M}{N}$$

$$ABN = MN^2$$

$$AB = MN$$

$$\hat{N} = \frac{AB}{M}$$