PopGen > **Effective Population Size**

Assignment #3: Effective Population Size

[A3] Autosomal, X- or Y-linked, and mt

PopGen > **Effective Population Size**

A3 - For genes that are inherited only though one sex such as mtDNA, cpDNA, and the Y Chromosome, the effective population size for the appropriate sex determines the effect of genetic drift on those genes.

$$N_e = \frac{N_{ef}}{2}$$
 or $N_e = \frac{N_{em}}{2}$

PopGen > **Effective Population Size**

	$N_m = 4$ $N_f = 200$	$N_{\rm m} = 200$ $N_{\rm f} = 200$	$N_m = 200$ $N_f = 4$
autosome	N _e =?	N _e =?	N _e =?
chromosome X	N _e =?	N _e =?	N _e =?
chromosome Y	N _e =?	N _e =?	N _e =?
mitochondrial	N _e =?	N _e =?	N _e =?