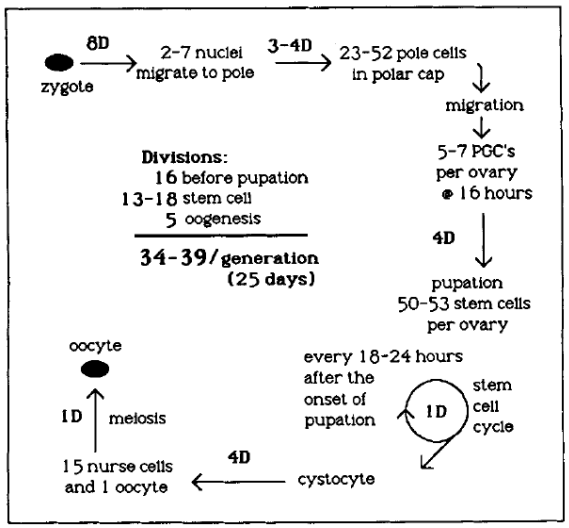

Fig. 2. Drosophila female germ cell divisions. Oogenesis requires 79 hr. The stem cell division resulting in a mature oocyte at 25 days occurred at 21.7 days. If the first stem cell division occurred $\sim 8\frac{1}{2}$ days, there will have been (21.7 − 8.5) (24 hr/day)/(18–24 hr) = 13–18 stem cell divisions.

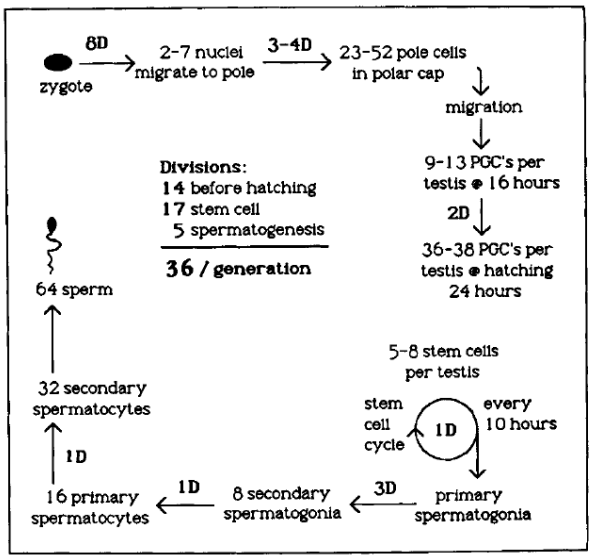

Fig. 3. Drosophila male germ cell divisions. Spermatogenesis begins at hatching (24 hr) and requires 10 days. The stem cell division resulting in mature sperm at 18 days occurred at 8 days or 192 hr, so that there will have been (192–24)/(10 hr) = 17 stem cell divisions.