Calculate  $X^2 = 127$  DF = 3-1 = 2

 $X^2 = 3.841$  and therefore value calculated is too high and therefore reject the hypothesis. Genotype frequencies observed do to measure the expected frequencies.

Inbreeding could have caused a reduction in the amount of heterozygotes present. Hetero's could be dying.

---> You could also assume or estimate allelic frequencies.

Flower colour

RR, Rr = Redrr = white

tespe.co. Red # of expected phenotype 75 Proportion 0.75 Assume HW  $q^2 = 0.25$ , q = 0.50.25 0.5 0.25

DF= 2-1-1 = 0 cannot perform Chi squared test on 0 df.

You can use HW proportions to estimate allele frequency when theres dominance.

Can do a test cross to figure out the genotype of the red flower.

I<sup>A</sup>I<sup>A</sup> I^i  $p^2 + 2pr$ I<sup>B</sup>I<sup>B</sup> Ι<sup>в</sup>ί  $q^2 + 2qr$ IAIB 2pq ii r2

Can assume HW equilibrium