Fruit Fly Genetics Experiment Work Sheet

- Fill all the blanks with information from the outcome screen on the web application
- Draw the Punnett squares with male genotypes on the left and female genotypes on the top.
- Every box has 25% probability. Depending on the offspring produced, divide the number of offspring into different types and calculate number of each type of traits.

Generation Number: 1   **Number of offspring:** 4

Cross Type: mono

*Fill parents 1 for mono cross, 1&2 for di cross and 1, 2&3 for tri cross.

Cross Type	Phenotype Selected	Dominant Allele	Recessive allele
Parents 1	Eye color	Red eye, +	White eye, w
Parents 2			
Parents 3			

Punnett Square Prediction:
List down all the combination possible for selected genotypes:-

A - + , a – w

AA, aa

Draw and fill Punnett square:-
* For instruction on how to fill Punnett squares, see instruction page on web application.

	A	A
a	Aa	Aa
a	Aa	Aa

List down your outcome from Punnett square:

4 – Aa's   100% Heterozygous Red eye

Does your results match with the data from the experiment?   *Yes / No*

If no, what do you think is the reason for it?