

Livestock Breeding and Genomics - Solution 3

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Problem 1: Own Performance

Given is the dataset with weight observations for 12 animals. The heritability (h^2) for the trait is 0.2025. The population mean μ can assumed to be the mean of the weights in the table below.

Animal	Weight
1	285
2	282
3	278
4	280
5	281
6	282
7	285
8	282
9	281
10	287
11	281
12	282

Your Tasks

- Compute the breeding values for all animals given in the table above
- Compute the accuracies of the breeding values of all animals shown in the table above.