Quantifying the difference between the line and the mean.
i.e. Calculating R^2

high weight

Mouse
Weight

$$R^2 = \frac{\text{Var}(\textbf{mean}) - \text{Var}(\textbf{line})}{\text{Var}(\textbf{mean})}$$

low weight

smallest   **Mouse Size**   largest
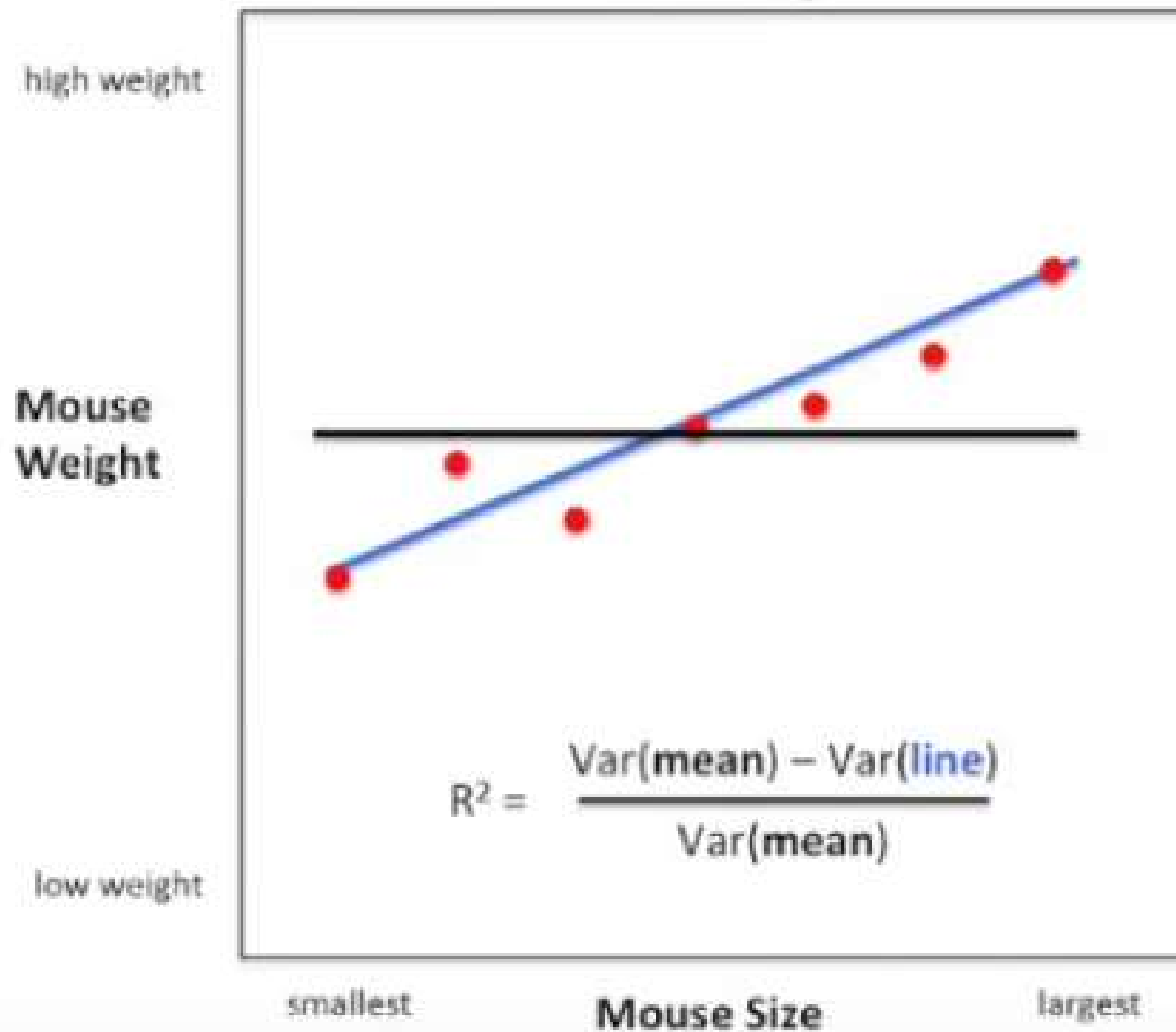
The Mean (or Average) of the mouse weights

high weight

Mouse Weight

low weight

← The mean.

1 2 3 4 5 6 7

Mouse ID#