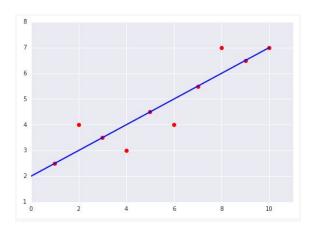
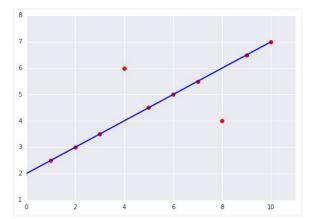
Mean Squared Error

Consider the following two plots:





Explore the options below.

- Which of the two data sets shown in the preceding plots has the higher Mean Squared Error (MSE)?
- The dataset on the left.
- The dataset on the right.

The eight examples on the line incur a total loss of 0. However, although only two points lay off the line, both of those points are *twice* as far off the line as the outlier points in the left figure. Squared loss amplifies those differences, so an offset of two incurs a loss four times greater than an offset of one.

 $MSE=(0^2+0^2+0^2+2^2+0^2+0^2+0^2+2^2+0^2+0^2)/10=0.8$

Correct answer