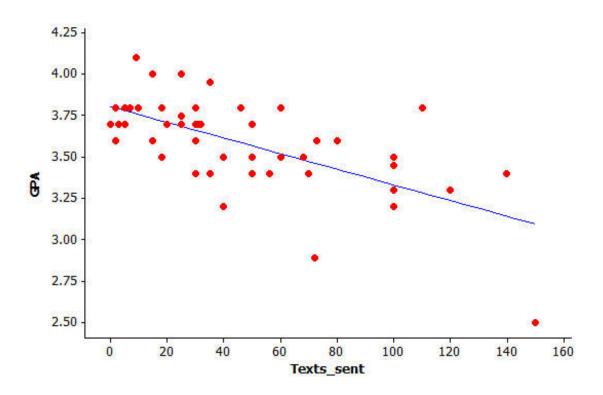


S-ID.7 Texting and Grades II

Task

Medhavi suspects that there is a relationship between the number of text messages high school students send and their academic achievement. To explore this, she asks a random sample of 52 students at her school how many text messages they sent yesterday and what their grade point average (GPA) was during the most recent marking period. Her data are summarized in the scatter plot below. The line of best fit is also shown.



The equation of the line of best fit is $\widehat{GPA} = 3.8 - 0.005$ (Texts sent). Interpret the quantities -0.005 and 3.8 in the context of these data.





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