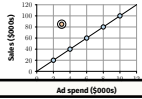
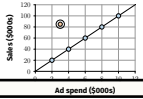
Push Tasks

Critique a flawed claim about the line of best fit, using a viral-outlier dataset.

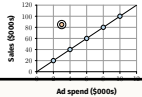
1. Describe the trend, association, and strength of the main cluster, ignoring the outlier.



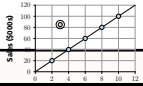
2. Find the outlier's coordinates. By how much do its actual sales exceed the trend's prediction?



3. "Every extra $1000 spent always adds exactly $10,000 in sales." Give two reasons this is wrong.



4. Would you trust this line's prediction for a $30,000 spend? Justify, referring to the data range shown.

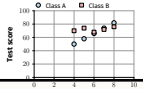


Push Tasks

Critique an explanatory/response mix-up, then quantify and compare the two groups' trends.

5. A student swaps the axes, then calls sleep the response variable. Explain why this is wrong.

6. Calculate the % increase in Class A's predicted score from 4 to 8 hours of sleep.



7. Class B's points scatter more than Class A's. What does this mean for trusting a Class B prediction?

8. Predict Class A's score at 7.5 hours sleep. Is this interpolation or extrapolation?