Name:

Learning Target 1: I can create an appropriate scatter plot for the given data: (HSS-ID.B.6)

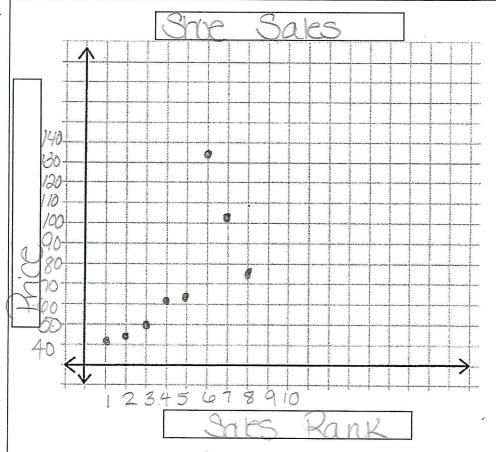
The prices of the eight top-selling brands of shoes at Kennedi's House of Shoes are given in the table below.

Sales Rank	1	2	3	4	5	6	7	8
Price (\$)	43	44	50	61	64	135	108	78

- Identify the independent and dependent variables.
- Graph the data. Make sure to include the following:
- --Title of scatter plot
- --Label each axis
- --Choose the appropriate increments for each axis.
- --Plot each of the data points accurately.

Independent: Salts rank

Dependent: MCC



<u>Learning Target 3:</u> I can determine whether the scatterplot shows a positive, negative, or no correlation for the given data.

4. Do you see a positive, negative or no correlation?

Circle your answer choice

Positive \

Negative

No Correlation

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5. Create a scatterplot on you	r calculator.		
6. What is the correlation coefficient?	Round your answer to the hundredths place. $r = 2$		
7. Does this indicate a strong correlation? Explain your reasoning	Yes of No It shows a weak positive relationship because the c.c. Explain: 15 between . 86 and .5		
8. Use the calculator to find slope (m)	Round your answer to the hundredths place.		
9. Use the calculator to find the y-intercept	Round your answer to the hundredths place.		
	(b): 28,79		
10. Write the linear regression equation in slope intercept form.	Equation: $4 - 9.80x + 38.79$		
Learning Target 4: I can use t	he given data and scatterplot to make predictions.		
11. Using the equation, what would be the price of a pair of the 11 th best-selling brands of jeans?	Round your answer to the hundredths place. $y = 9.80(11) + 28.79$ Price: \$130.59		
12. Using the equation, what would sales rank be for a pair of shoes that cost \$160.00?	160 = 9.80x + 28.79		
	Sales Rank: 13th Dlace		

Codition biol 1631 KEATEAN	Scatter	plot	Test	REVIEW
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Learning Target 5: I can use deductive reasoning to determine the correlation between real-life data. (HSF-LE.A.1)

Would you expect a *positive correlation, negative correlation,* or *no correlation* between the two sets of data? Give a clear reason for your choice.

1.) The distance that a person rides their bike and the amount of calories burned.

There is a DOSITIVE (positive/negative/no correlation) because The Move your of your of the move Calones you burn, (1)

2.) The amount of free time a person has and the amount of time they spend working. There is a NCOTTVE (positive/negative/no correlation) because The Move the your of pets they own (1 pt.) There is a NO CONFIGURE (positive/negative/no correlation) because the your fall someone is and the number of pets they own (1 pt.)