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Quiz 4 Linear Regression

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● Question 1



Based on the data shown below, calculate the regression line (each value to two decimal places)

$y =$ $x +$

x	y
4	9.36
5	7.45
6	9.24
7	5.23
8	5.42
9	5.61
10	4.3

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Quiz 4 Linear Regression

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● Question 2



Here is a bivariate data set.

x	y
57.4	47.4
32.7	138.4
62.4	33.3
73.2	40.1
66.7	27.1
54.8	49.2
55.9	71.3
64.8	31

Find the correlation coefficient and report it accurate to three decimal places.

$r =$

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● Question 3 ▼

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At the .01 significance level, does the data below show significant correlation?

x	y
1	32.11
2	28.72
3	31.53
4	31.84
5	24.65
6	17.36
7	26.67
8	20.88
9	9.19
10	11.7

- ☐ Yes, significant correlation
☐ No

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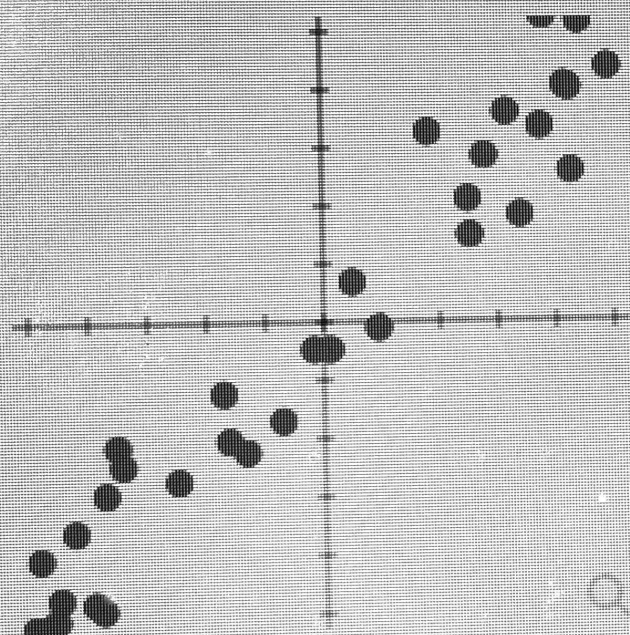
Quiz 4 Linear Regression

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● Question 4 ▼



Here is a scatter plot for a set of bivariate data.



What would you estimate the correlation coefficient to be?

-0.9 -0.6 0 0.6 0.9



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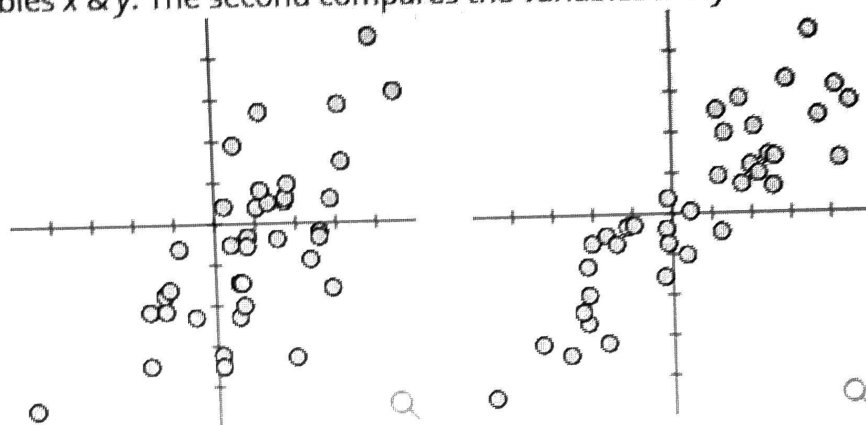
Quiz 4 Linear Regression

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● Question 5



Here are the scatter plots for two sets of bivariate data with the same response variable. The first compares the variables x & y . The second compares the variables w & y



Which explanatory variable has a stronger relationship with the response variable y ?

- ☐ The first variable (x) has a stronger relationship with the response variable y .
- ☐ The second variable (w) has a stronger relationship with the response variable y .

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● Question 6 ▼



Suppose you were to collect data for the following pair of variables, people: age, grip strength. You want to make a scatterplot. Which variable would you use as the explanatory variable?

- ☒ age
- ☐ grip strength

Which variable would you use as the response variable?

- ☐ age
- ☐ grip strength

Would you expect to see a positive or negative association?

- ☐ positive
- ☐ negative
- ☐ neither

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