

## **Correlation Task**

Name:

## **Questions for Correlation.html**

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- a) "How many distinct data points n does our sample contain?"
- b) "How many variables p does our dataset contain?"
- c) "What is the value of  $x_{21}$ ?"

## 2. Visual inspections with scatterplots

Answer the following questions to verify that you understand the relationship between x and y

"The relationship between variable x and y seems to be...",

- a) "positive (uphill)"
- b) "negative (downhill)"
- c) "zero (horizontal)"

"If variable x increases, variable y...",

- a) "increases (uphill)"
- b) "decreases (downhill)"
- c) "stays the same (horizontal)"

## 7. Visualization of different relationships

Hint: multiple answers are correct

"Relationship one is..."

- a)"positive";
- b) "negative";
- c) "zero";
- d) "linear";
- e) "non-linear";
- f) "monotonic";
- g) "non-monotonic"



"Relationship two is"
a)"positive";
b) "negative";
c) "zero";
d) "linear";
e) "non-linear";
f) "monotonic";
g) "non-monotonic"
"Relationship three is"
a)"positive";
b) "negative";
c) "zero";
d) "linear";
e) "non-linear";
f) "monotonic";
g) "non-monotonic"
"Relationship four is"
a) "linear";
b) "non-linear";
c) "monotonic";

d) "non-monotonic"