

Mathematics

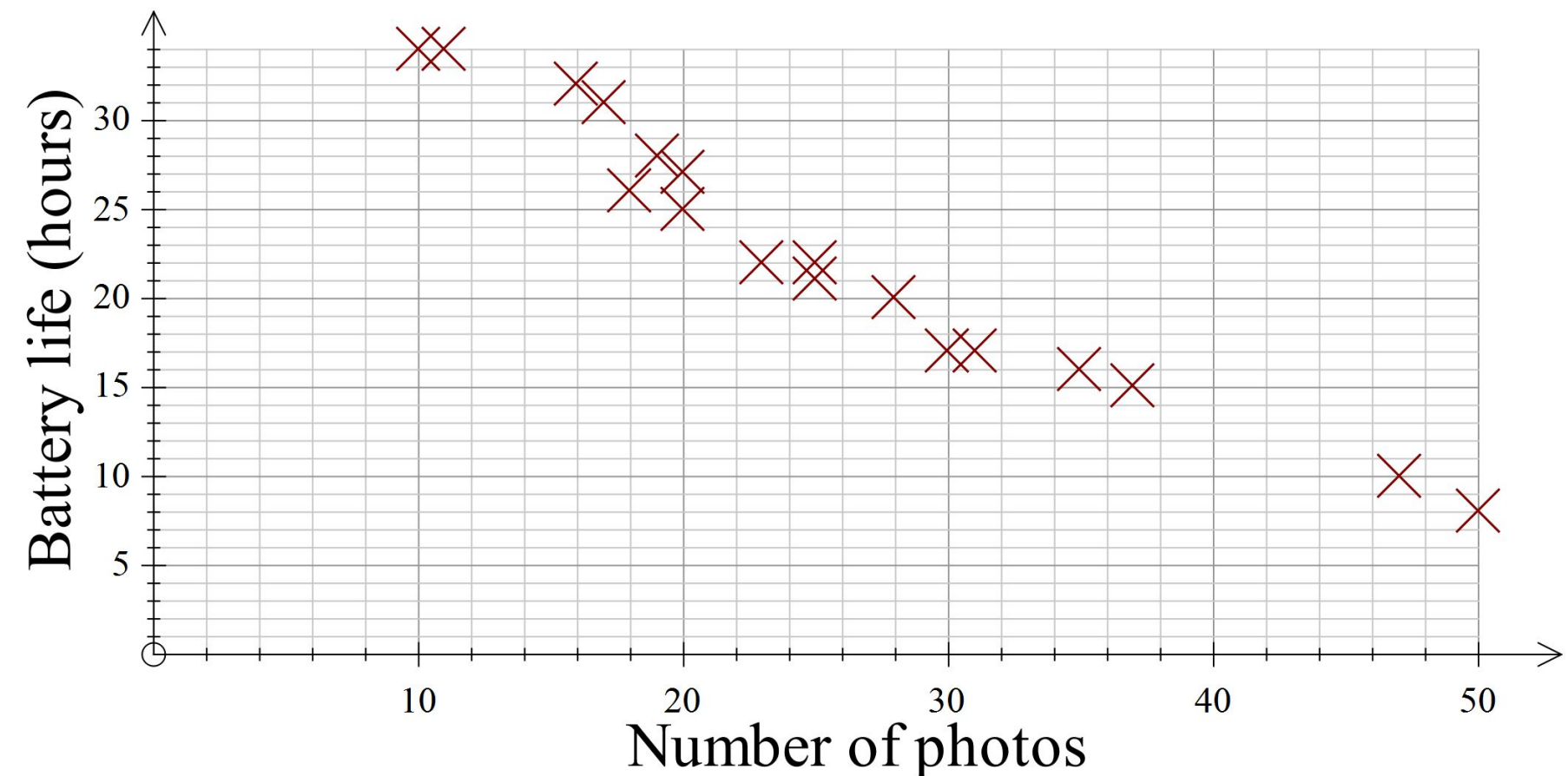
Correlation - Worksheet

Mr Millar



Try this

How could you describe the connection between the variables shown on the scatter graph?



How many way can you complete the sentence frame?

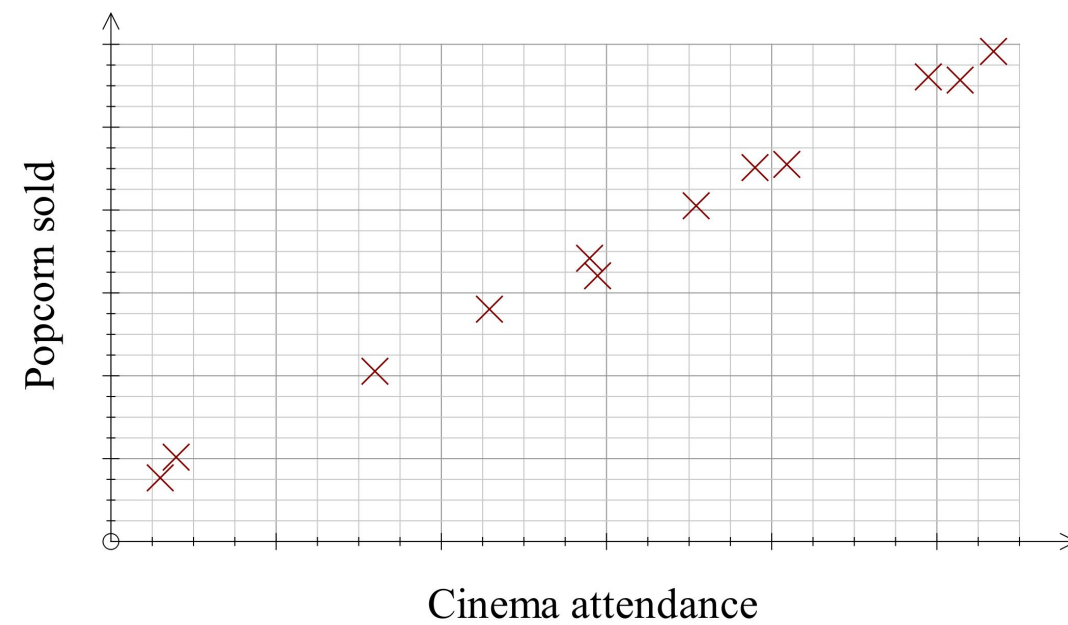
As the _____ increases/decreases, the _____ increases/decreases.



Connect

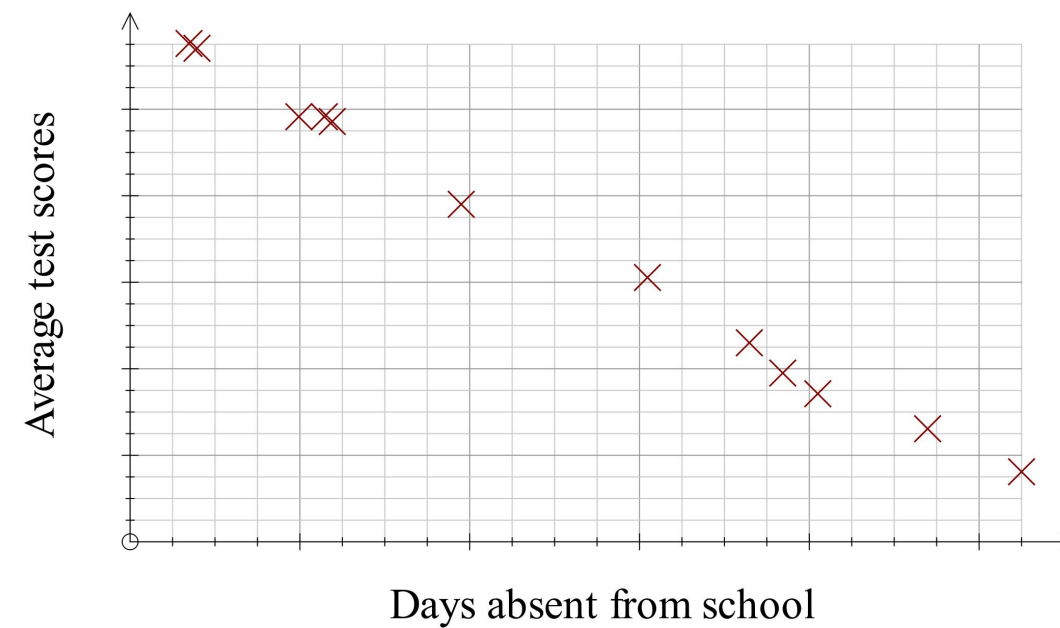
No questions here, but useful for next questions

Positive Correlation



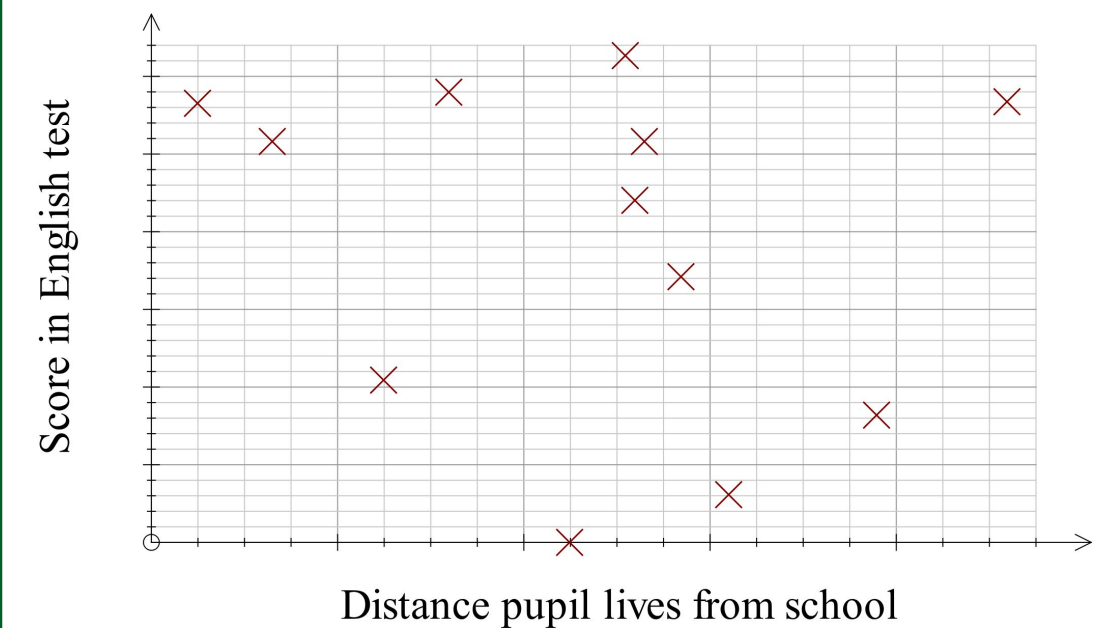
As one variable increases,
so does the other

Negative Correlation



As one variable increases
the other decreases

No Correlation

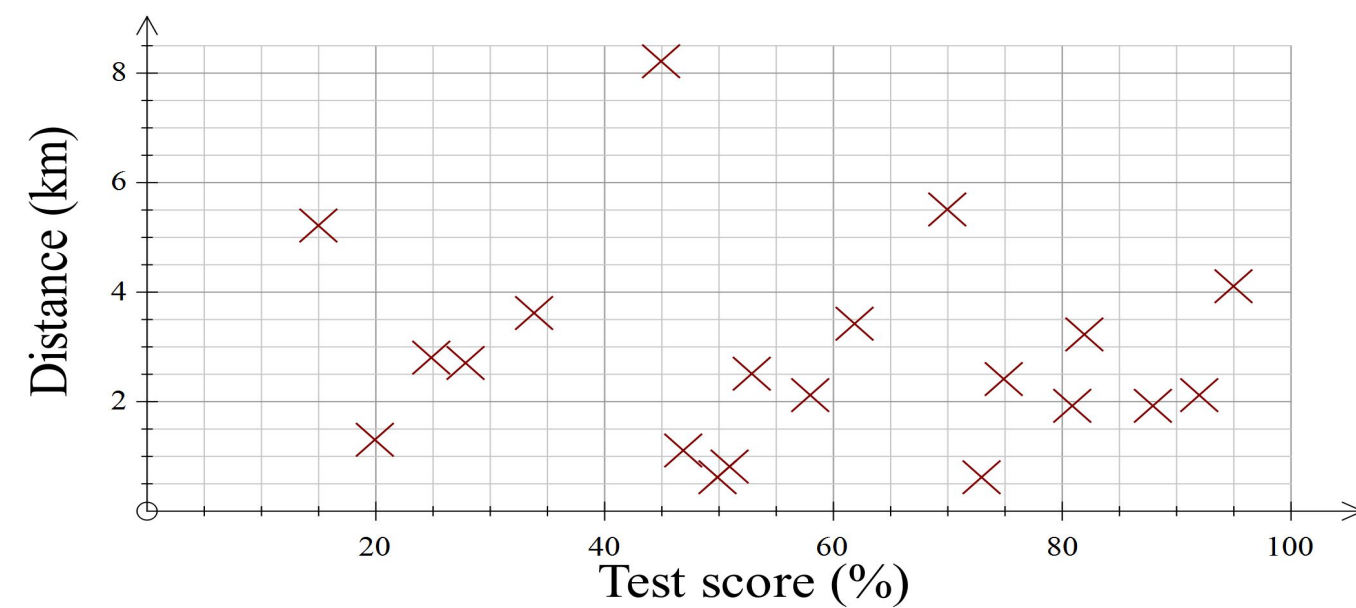
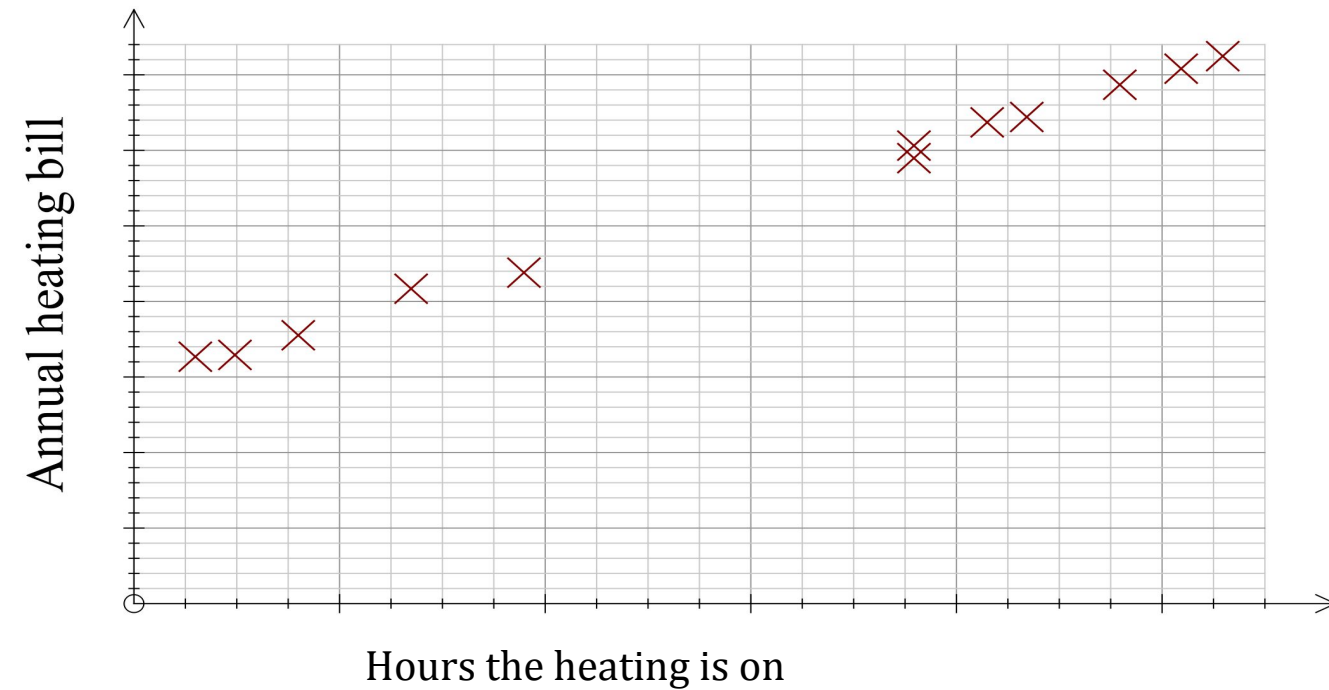


No apparent pattern
between the two variables

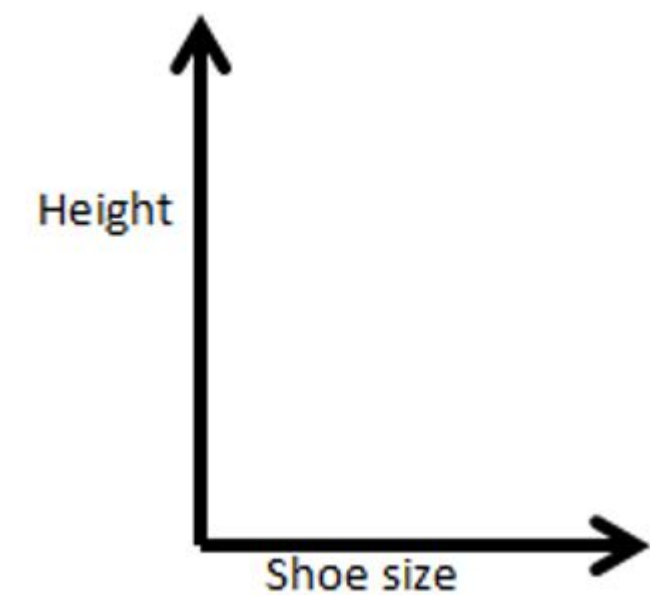
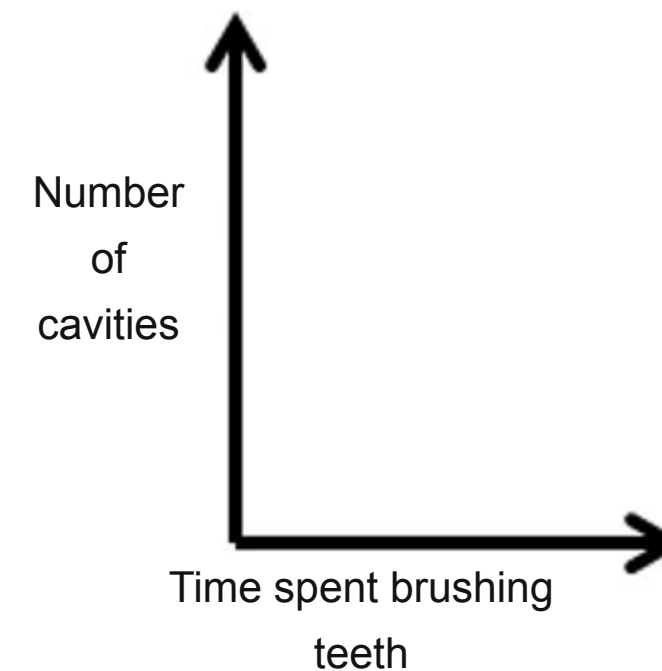
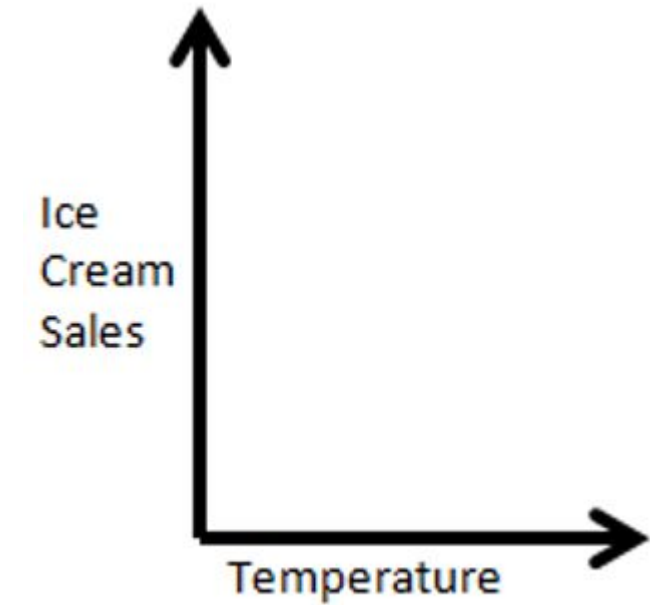
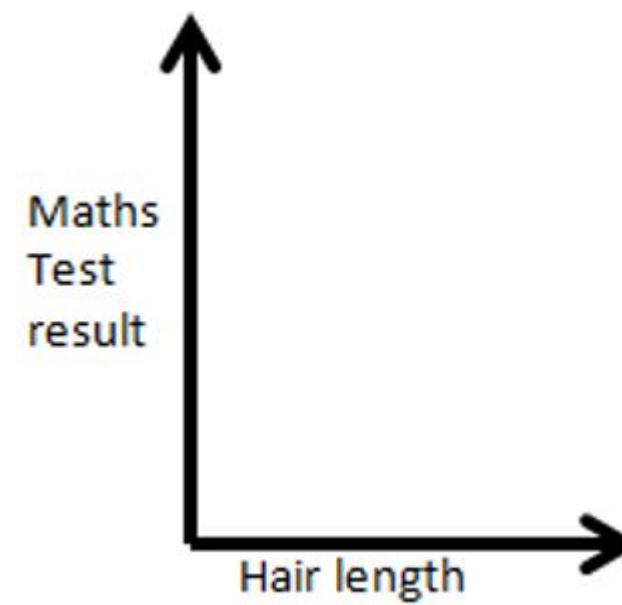


Independent task

1. Write a sentence explaining what each graph is showing, and the type of correlation

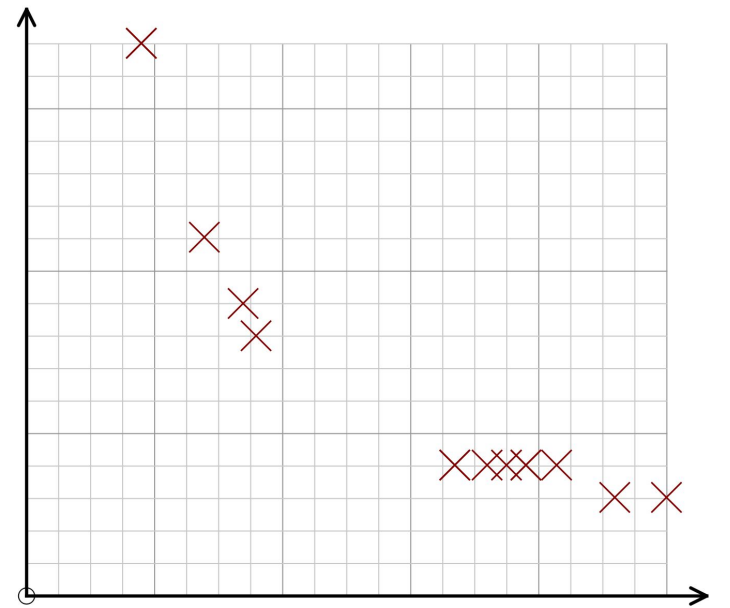
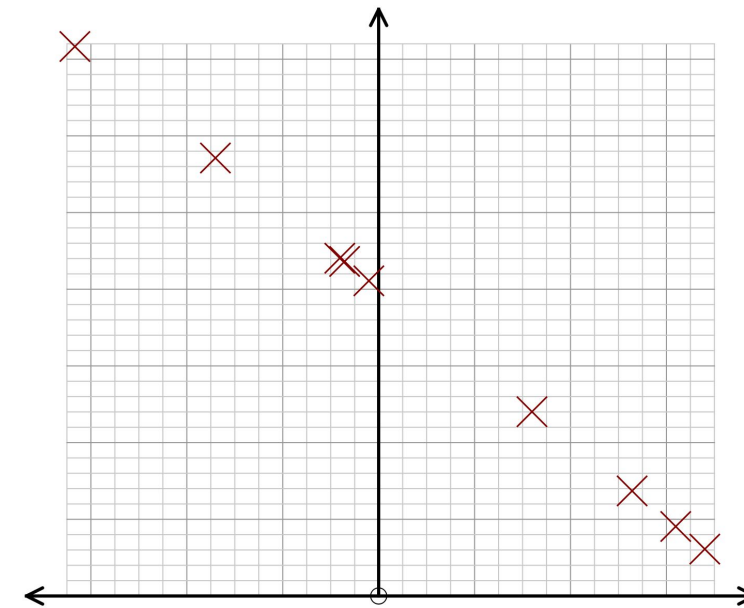
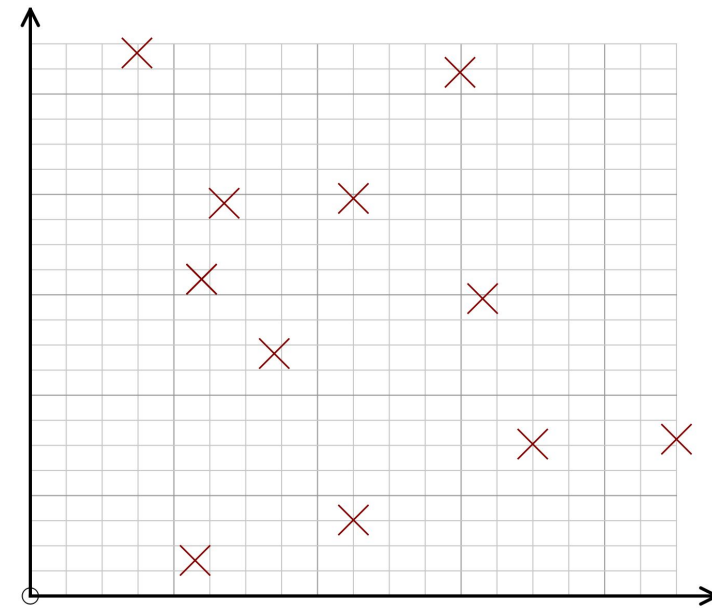
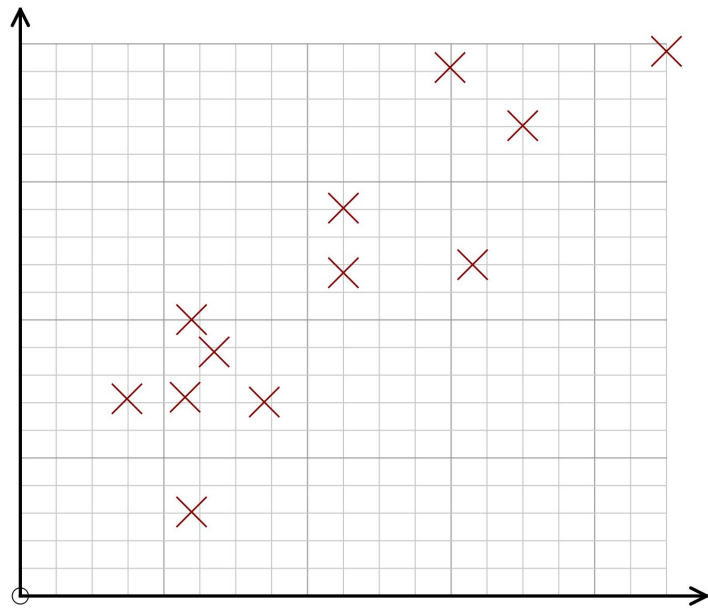
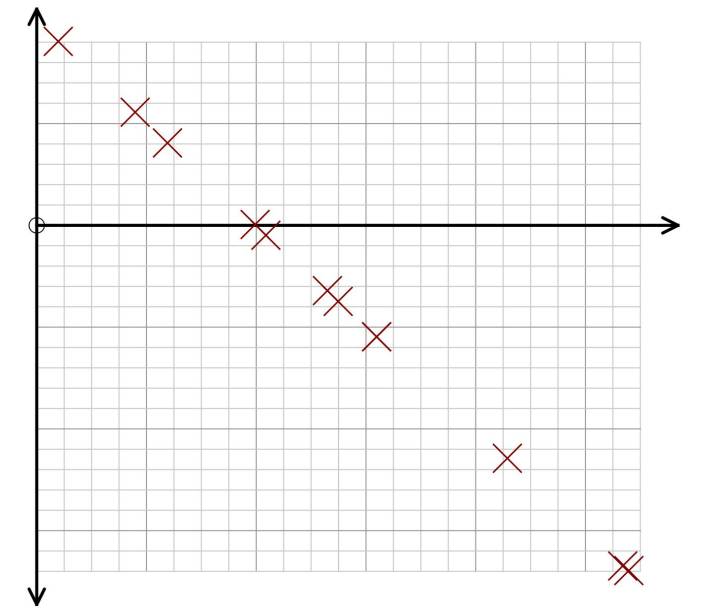
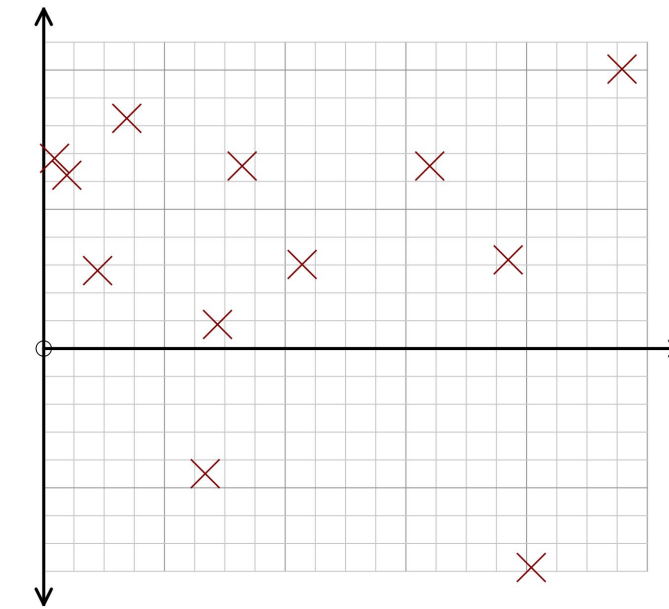
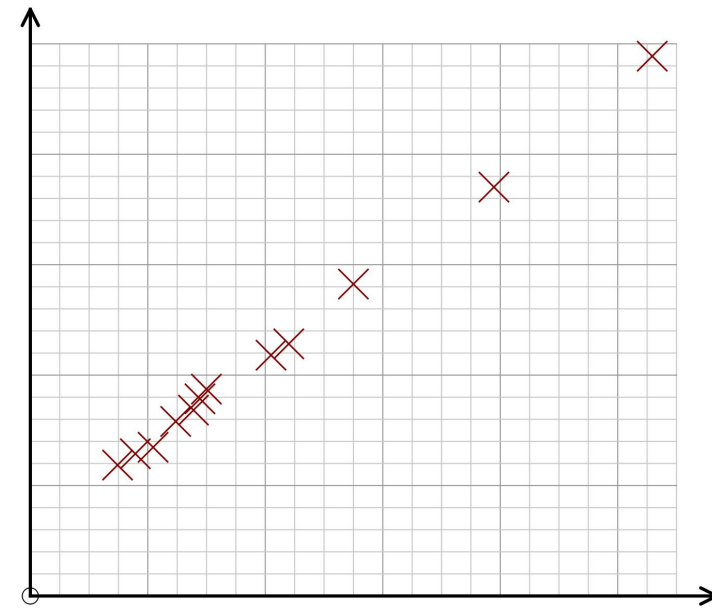
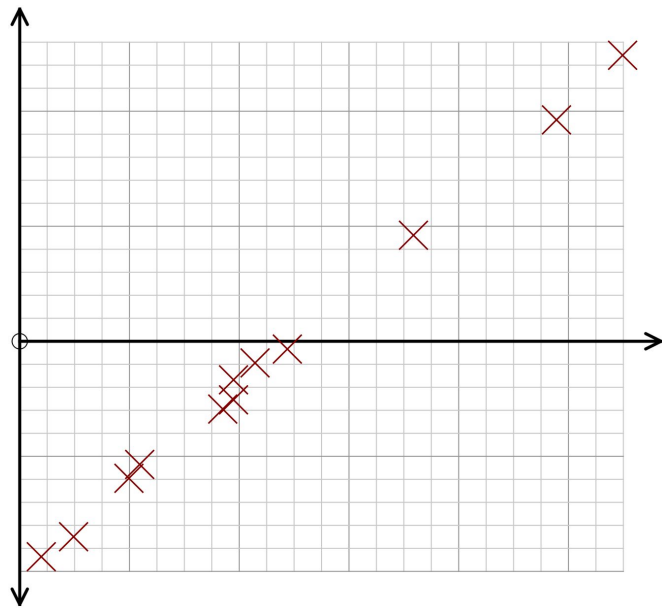


2. On each set of axes plot 8-10 points based on the correlation you would expect to find.



Explore

Sort these graphs into groups based on the correlation shown.
Place them in order by strength of correlation. Think of variables that might match each graph.

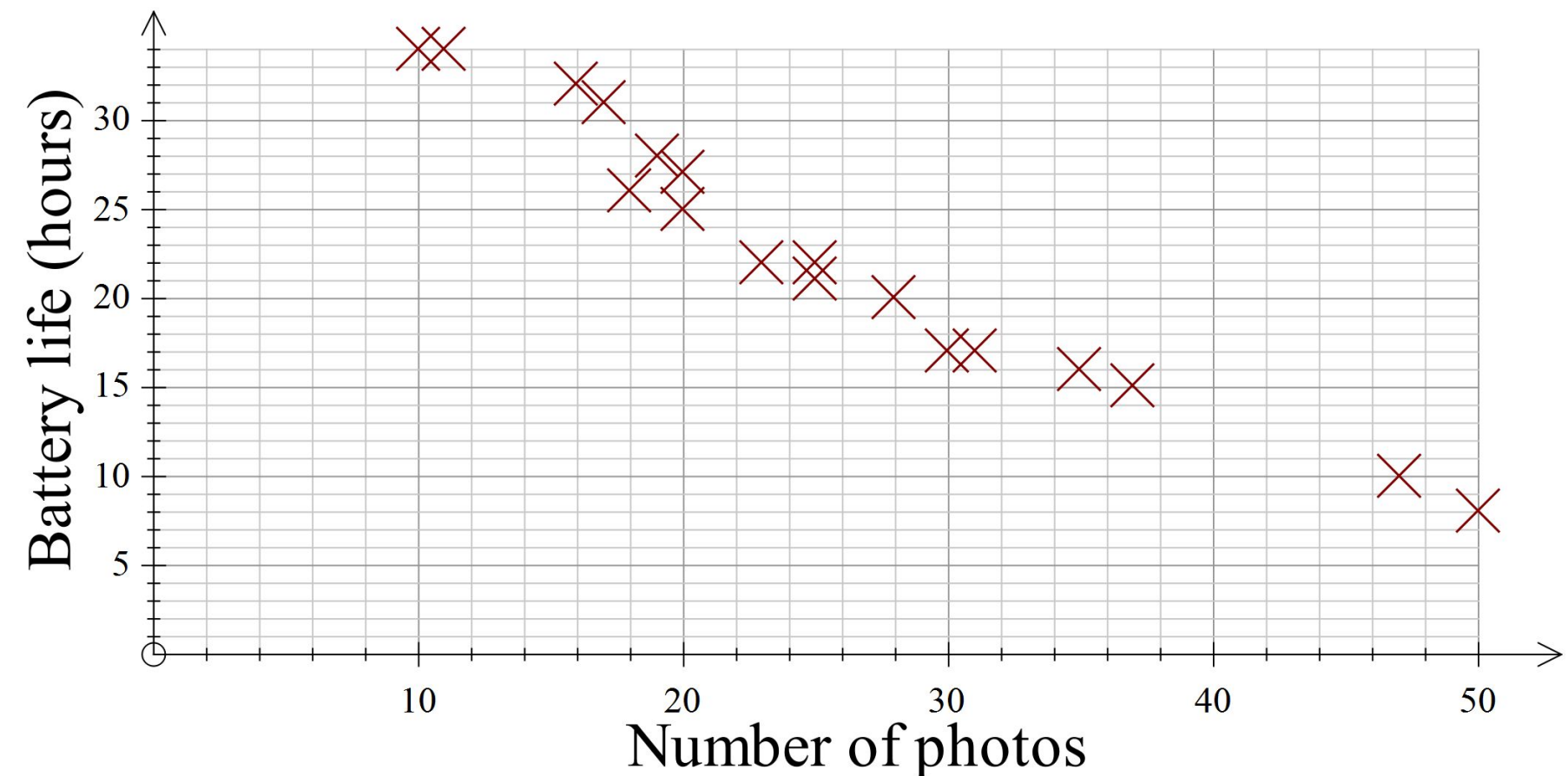


Answers



Try this

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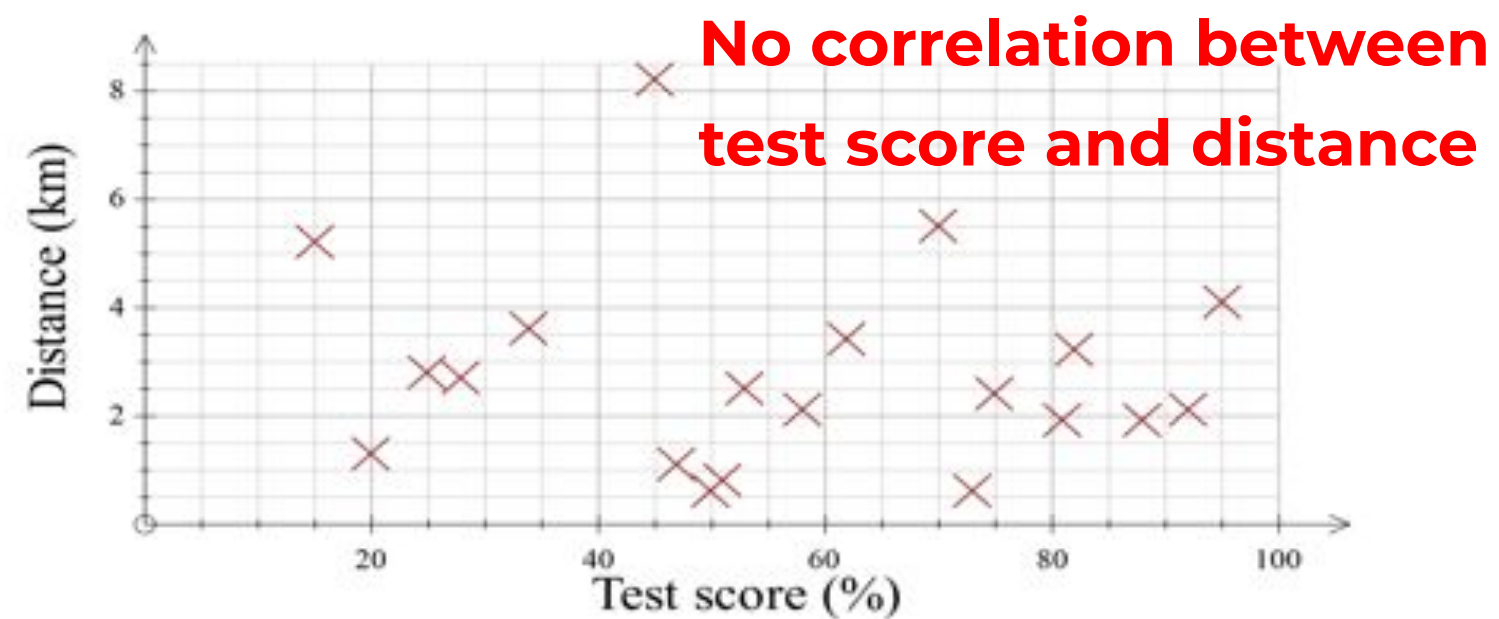
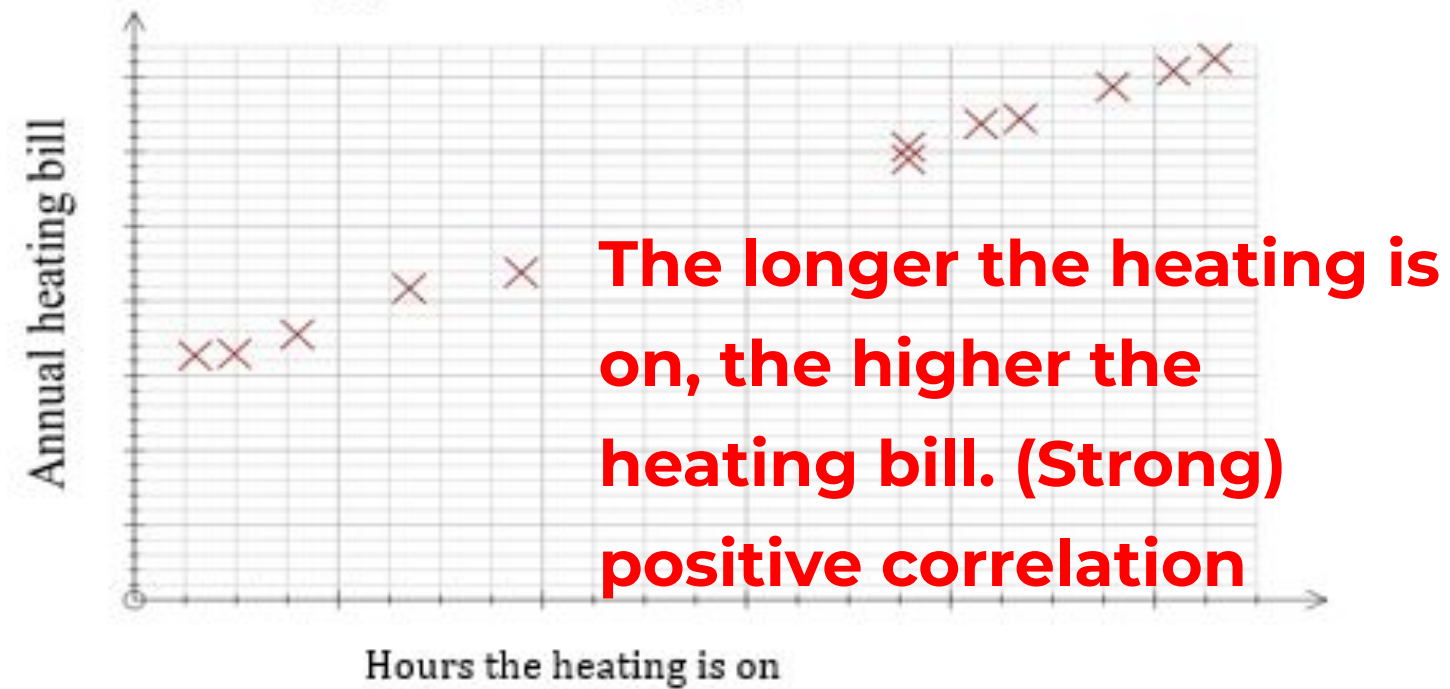
How many way can you complete the sentence frame?

As the number of photos increases, the battery life decreases.

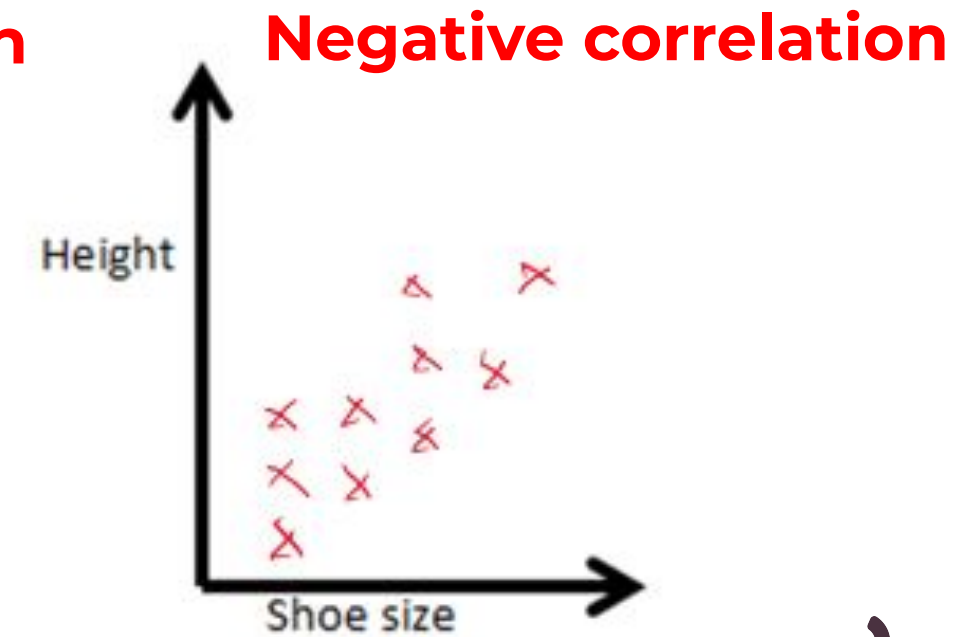
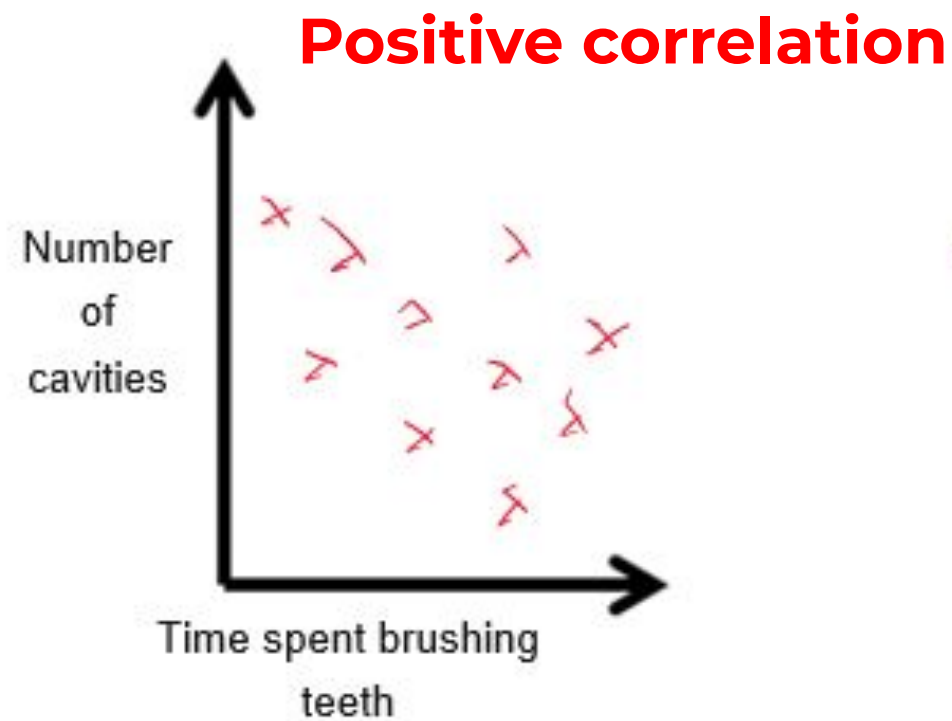
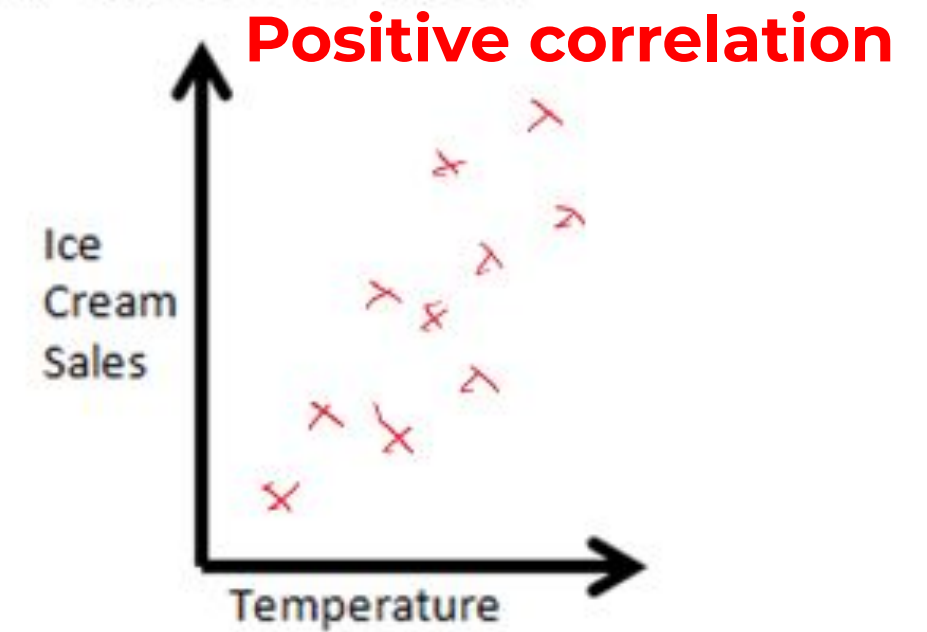
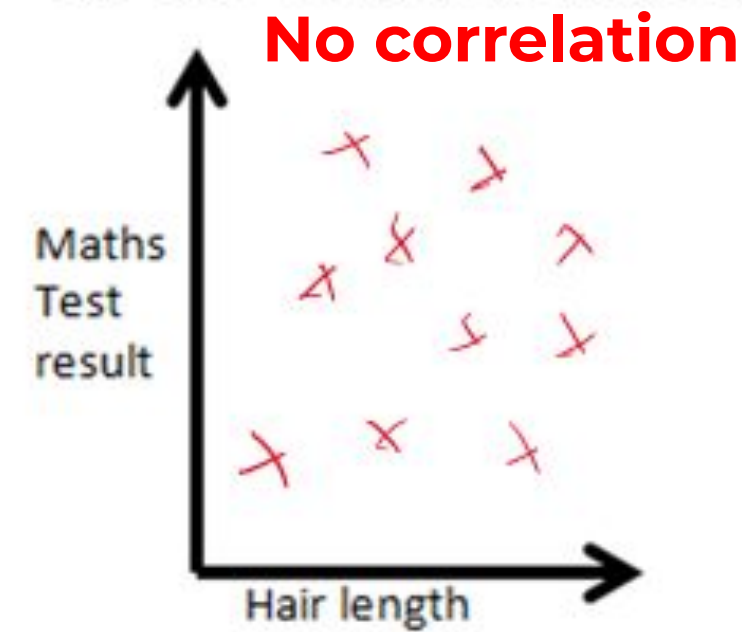


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