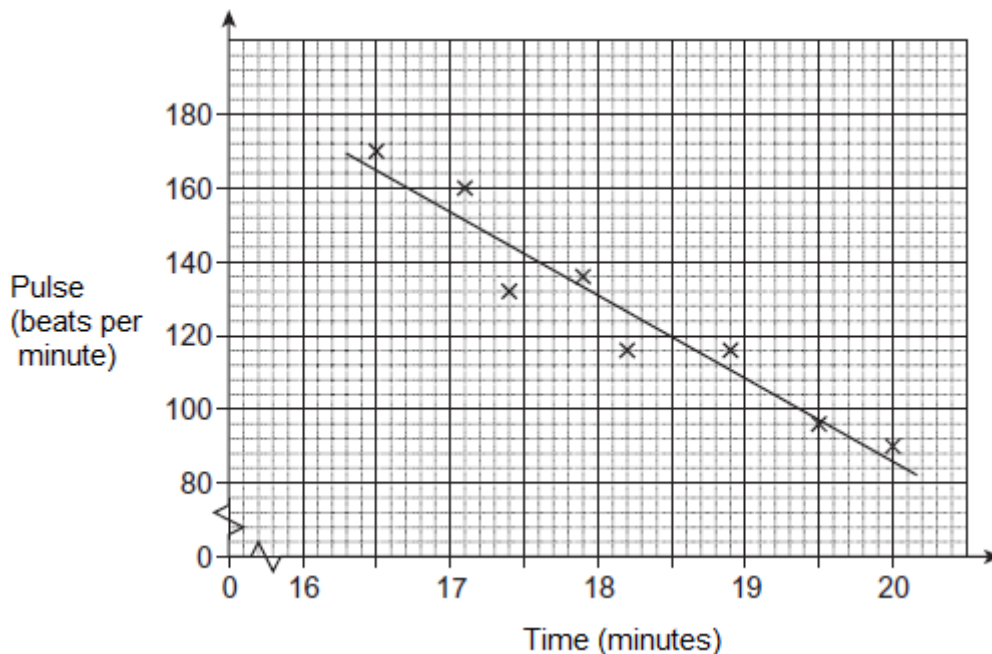


Q1. Julia goes for the same run every day.
After each run she records her time and measures her pulse.

The scatter graph shows her results for 8 days.
A line of best fit has been drawn.



(a) What type of correlation does the graph show?

Answer

(1)

(b) She completes her next run in 18.5 minutes.

Use the line of best fit to estimate her pulse.

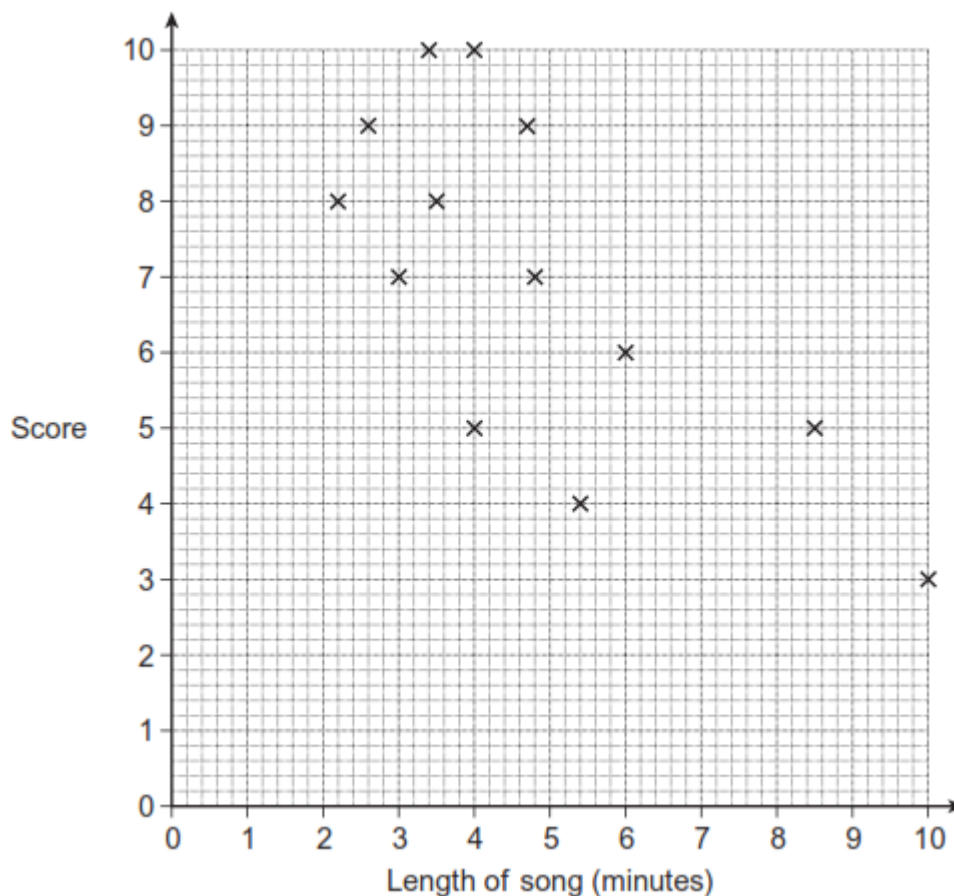
.....

Answer beats per minute

(1)

(Total 2 marks)

Q2. Freddie and Priya both like music.
Freddie gives some songs a score out of 10.
The scatter diagram shows his results.



(a) What fraction of the songs is given full marks?

Answer

(1)

(b) How long is the song that is given a score of 4?
Give your answer in minutes and seconds.

.....

Answer minutesseconds

(2)

(c) Freddie has this hypothesis.
He says, "The shorter the song the more I like it".

Comment on his hypothesis.

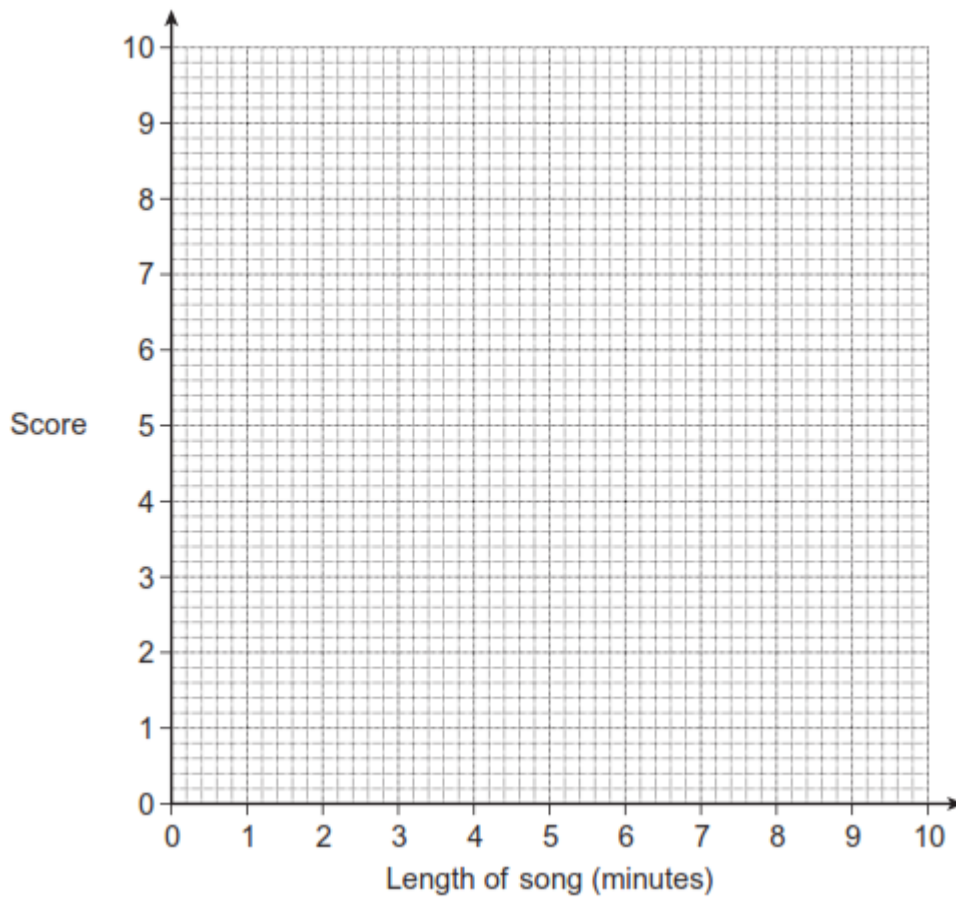
.....

.....

(1)

- (d) Priya also gives some songs a score out of 10.
She has a different hypothesis.
She says, "The longer the song the more I like it".
Her hypothesis is strongly supported by the data she collects.

Plot points on the grid to show how her scatter diagram may look.



(1)
(Total 5 marks)