

Section 3: Bivariate data

Exercise level 2 solutions

1. The correlation coefficient would become weaker because there would be a less strong linear relationship in the data set.
2. (i) (A) The additional time for each mile travelled, according to the straight line model.
(B) The time for a journey of zero miles, according to the straight line model.

(ii) (A) 9.35 minutes
(B) 16 minutes
(C) 149 minutes (2 hours 29 minutes)

(iii) (A) There are no data for very short journeys so the estimate may not be right.
(B) Close to the data available so the estimate is likely to be about right as there is strong correlation.
(C) A long way from the available data so the estimate may not be right.