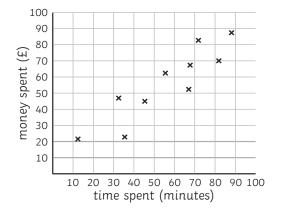
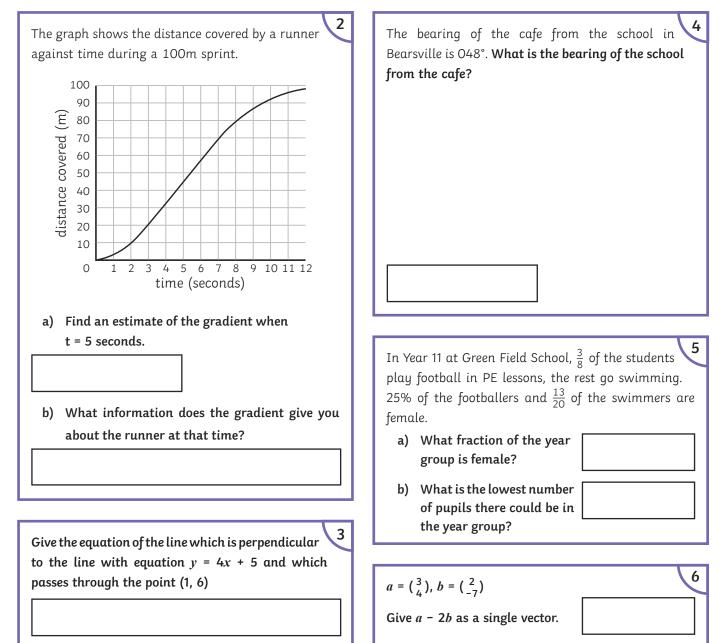
Higher 7-9 Maths Activities

The scatter graph shows the amount of time that 10 shoppers spent in the supermarket one morning against the amount of money they spent.



- a) What is the relationship between time spent and money spent in the supermarket?
- b) One customer spends 40 minutes in the supermarket. Estimate how much money he or she will have spent.
- c) How reliable is your estimate? Can you explain why?

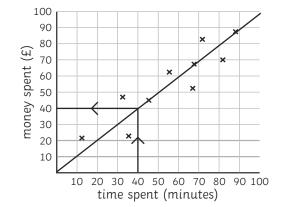






Higher 7-9 Maths Activities - Answers

The scatter graph shows the amount of time that 10 shoppers spent in the supermarket one morning against the amount of money they spent.



a) What is the relationship between time spent and money spent in the supermarket?

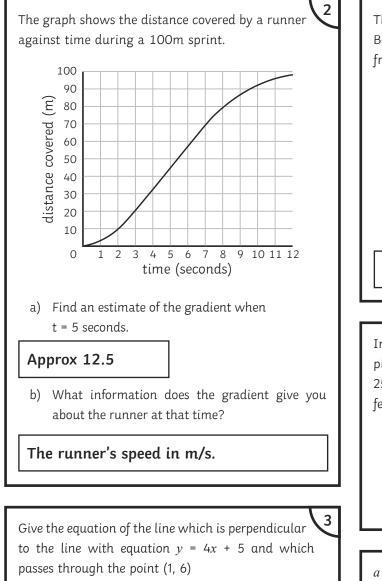
Generally, the more time that shoppers spend in the store, the more they spend.

b) One customer spends 40 minutes in the supermarket. Estimate how much money he or she will have spent.

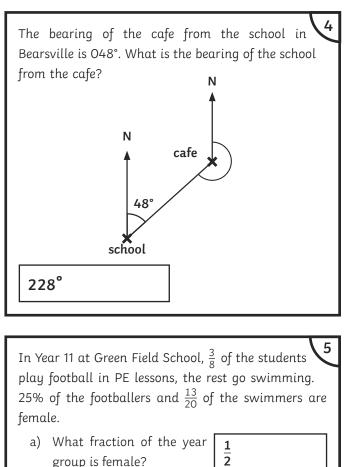
Appropriate reading taken from line of best fit.

c) How reliable is your estimate? Can you explain why?

The estimate is within the range of the data and the graph shows a fairly good correlation, so the estimate is reliable.



 $y = -\frac{1}{4}x + 6\frac{1}{4}$ or equivalent



b) What is the lowest number of pupils there could be in the year group?

 $a = \begin{pmatrix} 3 \\ 4 \end{pmatrix}, b = \begin{pmatrix} 2 \\ -7 \end{pmatrix}$

 $\binom{-1}{18}$ Give a - 2b as a single vector.

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