Numeracy Year 9 - Week 7: Algebra

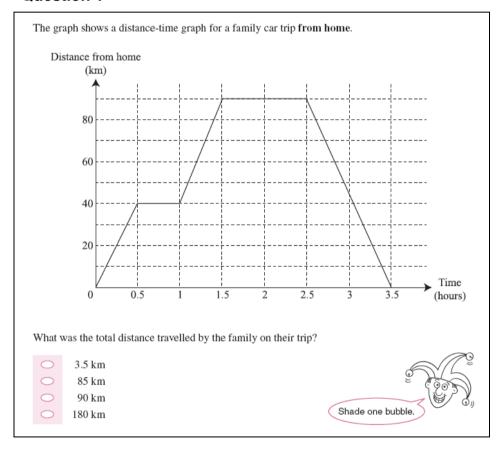
Department of Education and Training

STUDENT WORKSHEET

Focus of the week

Plotting and interpreting linear functions

Question 1

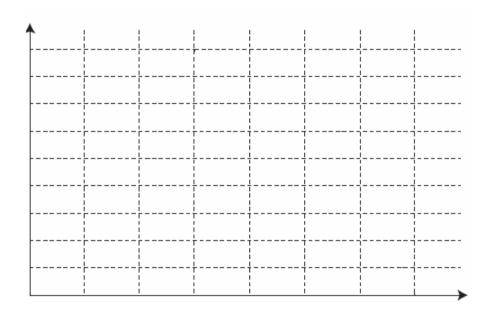


Question 2

The cost in dollars, C, to print n books is 500 + 10n.

Choose a scale and label the axes on the grid below.

Plot the cost of printing 50, 150 and 600 books.



Draw the line graph for *C* (the cost of printing books).

Show on your graph how you estimate the cost of printing 325 books.

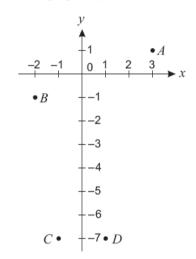
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Question 3

The graph of y = 2x - 5 will be drawn on this grid.



Which two points will the straight line pass through?

A and B

 \boldsymbol{B} and \boldsymbol{C}

B and D

A and C



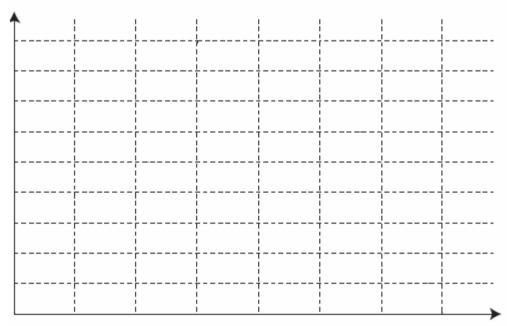


Challenge Question

The fare for a trip with *Taxicabs* is given as **\$4.00 flag fall plus \$1.50 per km**. The fare with *Quikcabs* is given as **\$7.50 flag fall plus \$1.00 per km**.

Choose a scale and label the axes on the grid below.

Plot the cost of a 2 km, 5 km and 10 km trip with both companies.



Draw the graph for the 'cost of trip' for both companies.

The fare is \$12. Use your graphs to estimate the length of trip for both companies.

Cost for Taxicabs _____; Cost for Quikcabs _____