

Objective: TBAT draw graphs of direct proportion and write formulas connecting variables



Met

Partially
Met

Not Met

Work on the following sections:

Column 1

Column 2

Extension

Column 1

The amount of money Melissa gets paid can be found using the formula

$$y = 7.2x$$

a) Complete the table below:

x	1	2	4	5	10
y					

- b) Using graph paper, draw a graph displaying the data above.
- c) Use your graph to estimate how much Melissa would get paid for working 7 hours.

Column 2

Below is a table showing the cost of fuel, c, for the number of litres, L, bought.

Litres (L)	2	3		9	10
Cost (c£)	2.22		7.26		

- a) Complete the table above
- b) Find the formula connecting L and c
- c) Using your formula, how much would it cost to buy 40 litres of fuel?
- d) Using your formula, how many litres have I bought if I pay £19.36?

Extension:

The exchange rate between pounds and the American dollar is:

$$£1 = \$1.31$$

Georgie goes on holiday to America. Whilst there, she sees a camera she wants to buy. In America the camera costs \$78.60. The same camera is available in the UK for £65.

In which country should she buy the camera if she wants to buy it as cheaply as possible? How much cheaper is it?