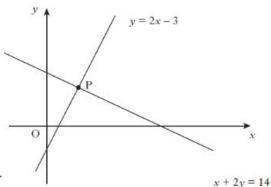
Credit Revision - Simultaneous Equations

2012 Paper 1

8. The graph below shows two straight lines.

• y = 2x - 3

•
$$x + 2y = 14$$



The lines intersect at the point P.

Find, algebraically, the coordinates of P.

4KU

2011 Paper 1

(a) Brian, Molly and their four children visit Waterworld.
The total cost of their tickets is £56.



Let a pounds be the cost of an adult's ticket and c pounds the cost of a child's ticket.

Write down an equation in terms of a and c to illustrate this information.

1KU

(b) Sarah and her three children visit Waterworld.

The total cost of their tickets is £36.

Write down another equation in terms of a and c to illustrate this information.

1KU

(c) (i) Calculate the cost of a child's ticket.

2RE

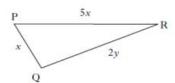
(ii) Calculate the cost of an adult's ticket.

1RE

2009 Paper 1

8. In triangle PQR:

- PQ = x centimetres
- PR = 5x centimetres
- QR = 2y centimetres.



(a) The perimeter of the triangle is 42 centimetres.

Write down an equation in x and y to illustrate this information.

2 KU

(b) PR is 2 centimetres longer than QR.

2RE

Write down another equation in x and y to illustrate this information.

(c) Hence calculate the values of x and y.

3RE

2008 Paper 2

4. Aaron saves 50 pence and 20 pence coins in his piggy bank. Let x be the number of 50 pence coins in his bank. Let y be the number of 20 pence coins in his bank. (a) There are 60 coins in his bank. 1KU Write down an equation in x and y to illustrate this information. (b) The total value of the coins is £17.40. Write down another equation in x and y to illustrate this information. 1KU (c) Hence find algebraically the number of 50 pence coins Aaron has in 3RE his piggy bank. 2007 Paper 1 (a) A cinema has 300 seats which are either standard or deluxe. 1KU Let x be the number of standard seats and y be the number of deluxe seats. Write down an algebraic expression to illustrate this information. (b) A standard seat costs £4 and a deluxe seat costs £6. 2KU When all the seats are sold the ticket sales are £1380. Write down an algebraic expression to illustrate this information. 3RE (c) How many standard seats and how many deluxe seats are in the cinema? 2006 Paper 1 9. Euan plays in a snooker tournament which consists of 20 games. He wins x games and loses y games. (a) Write down an equation in x and y to illustrate this information. 1KU (b) He is paid £5 for each game he wins and £2 for each game he loses. He is paid a total of £79. Write down another equation in x and y to illustrate this information. 2KU (c) How many games did Euan win? 3RE