8 Solve the simultaneous equations

$$4x + 2y = 9$$

$$x - 4y = 9$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 8 is 3 marks)

12 Solve the simultaneous equations $2x + 7y = 17$
$5x + 3y = -1$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 12 is 4 marks)

6 Solve the simultaneous equations

$$x + 2y = 15$$
$$4x - 6y = 4$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 6 is 3 marks)

P 7 2 4 3 8 A 0 7 2 8

7 Solve the simultaneous equations

$$5x + 4y = -2$$
$$2x - y = 4.4$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 7 is 3 marks)

9 Solve the simultaneous equations

$$4x + 5y = 4$$
$$2x - y = 9$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 9 is 3 marks)

10 Solve the simultaneous equations

$$3x + 5y = 3.1$$
$$6x + 3y = 3.75$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 10 is 3 marks)

10 Solve

$$3x + 2y = 15$$
$$10x - 4y = 2$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 10 is 3 marks)

P 5 9 0 1 2 A 0 1 0 2 4

9 Solve the simultaneous equations

$$x + y = 15$$
$$7x - 5y = 3$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 9 is 3 marks)

Turn over ▶

9 Solve the simultaneous equations

$$x + 2y = -0.5$$
$$3x - \ y = \ \ 16$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 9 is 3 marks)

7 Solve the simultaneous equations

$$3x + 5y = 6$$
$$7x - 5y = -11$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 7 is 3 marks)

8 Solve the simultaneous equations

$$5a + 2c = 10$$
$$2a - 4c = 7$$

Show clear algebraic working.

$a =$ ....

$c =$ ....

(Total for Question 8 is 3 marks)

14 Solve the simultaneous equations

$$3x - 5y = 25$$
$$4x + 3y = 14$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 14 is 4 marks)

10 Solve the simultaneous equations

$$7x + 3y = 3$$
$$3x - y = 7$$

Show clear algebraic working.

$x = $ ....

$y = $ ....

(Total for Question 10 is 3 marks)

9 Solve the simultaneous equations

$$2x + 9y = 14.5$$
$$7x + 3y = 8$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 9 is 3 marks)

12 . Given that $3x - y = 0.09$

and $x + y = 0.19$

(b) work out the value of x and the value of y
Show clear algebraic working.

$x = $ ....

$y = $ ....

(3)

(Total for Question 12 is 5 marks)

12 Solve the simultaneous equations

$$4x + 3y = \ \ 9.6$$
$$6x + 5y = 16.8$$

Show clear algebraic working.

$x = $ ....

$y = $ ....

(Total for Question 12 is 4 marks)

10 Solve the simultaneous equations

$$6x + 4y = 1$$
$$3x + 5y = 8$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 10 is 3 marks)

12 Solve the simultaneous equations

$$7x + 2y = 5.5$$
$$3x - 5y = 17$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 12 is 4 marks)

12 Solve the simultaneous equations

$$7x - 2y = 34$$
$$3x + 5y = -3$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 12 is 4 marks)

6 Alison buys 5 apples and 3 pears for a total cost of $1.96
Greg buys 3 apples and 2 pears for a total cost of $1.22
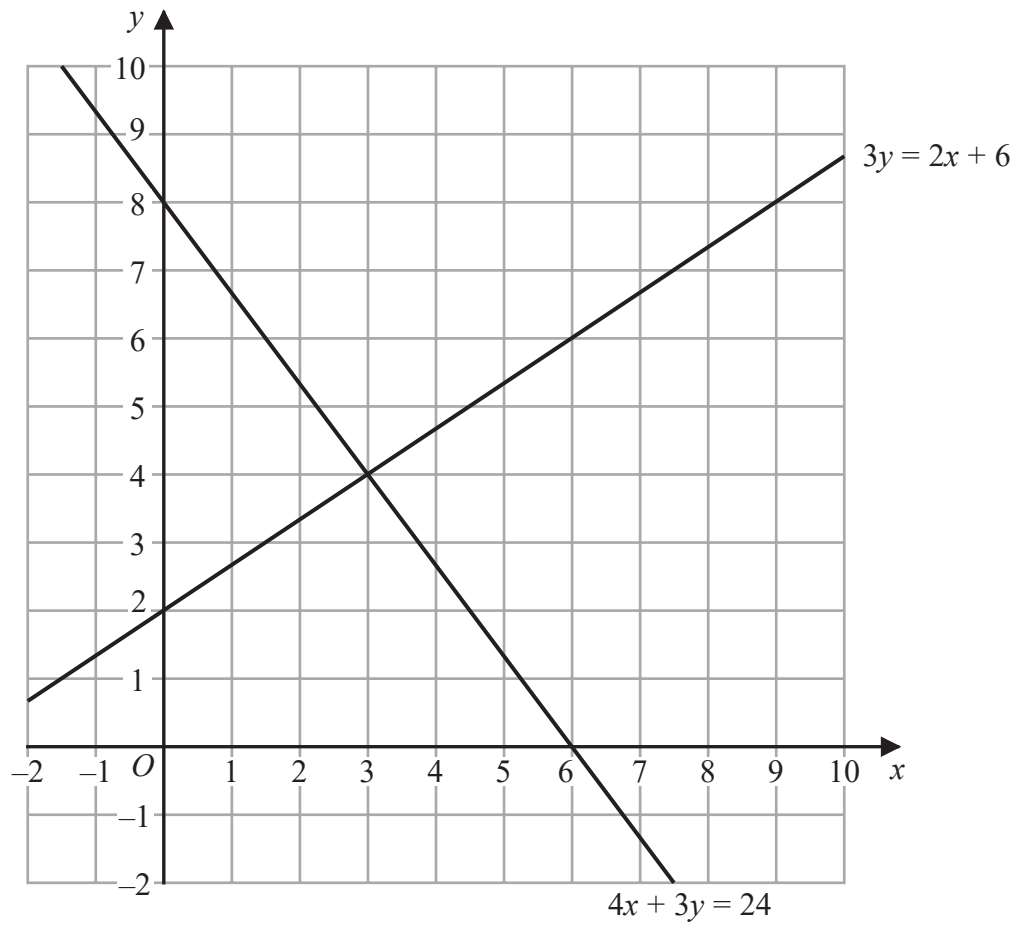
Michael buys 10 apples and 10 pears.

Work out how much Michael pays for his 10 apples and 10 pears.
Show your working clearly.

$..

(Total for Question 6 is 5 marks)

12 The diagram shows two straight lines drawn on a grid.

(a) Write down the solution of the simultaneous equations

$$3y = 2x + 6$$
$$4x + 3y = 24$$

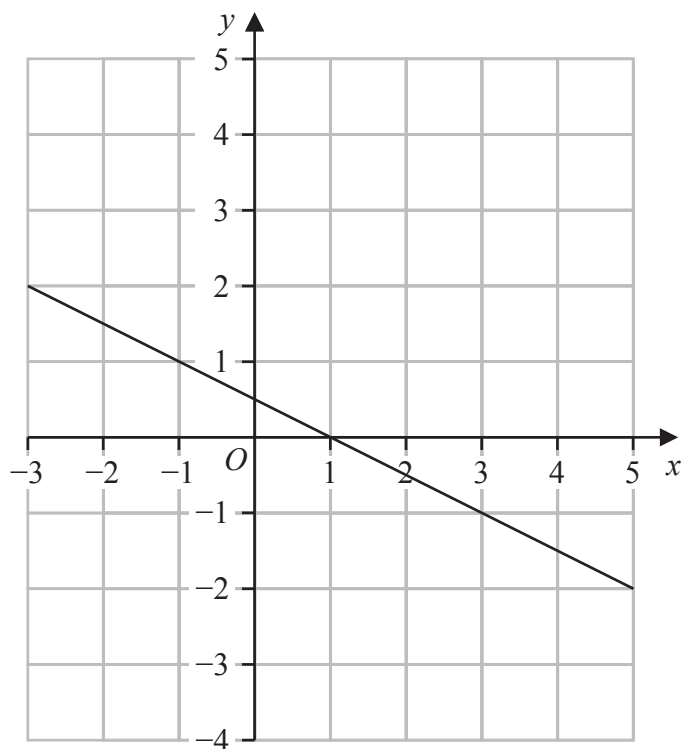$x =$ ....

$y =$ ....

(1)

14 Here is the graph of the equation $2y + x = 1$ drawn on a grid.

By drawing another straight line on the grid, solve the simultaneous equations

$$y - x - 2 = 0$$
$$2y + x = 1$$

$x = $ ....

$y = $ ....

(Total for Question 14 is 3 marks)

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