A125 Simultaneous equations 1

Q1.

Solve the simultaneous equations

$$4x + y = 25$$
$$x - 3y = 16$$

x = ... , y = ...

(Total for question is 3 marks)

Q2.

Solve the simultaneous equations

$$3x + y = -4$$
$$3x - 4y = 6$$

x = ...

y = ...

(Total for question = 3 marks)

Q3.

Solve the simultaneous equations

$$4x + y = 10$$
$$x - 5y = 13$$

x = ...

y = ...

(Total for question = 3 marks)

Q4.

Solve the simultaneous equations

$$2x + 3y = 10$$
$$4x - y = -1$$

x = ...

y = ...

(Total for question = 3 marks)

Q5.

Solve the simultaneous equations

$$3x - 2y = -5$$
$$2x - 4y = 2$$

x = ...

y = ...

(Total for question = 3 marks)

Q6.

Solve the simultaneous equations

$$5x + y = 21$$
$$x - 3y = 9$$

x = ...

y = ...

(Total for question = 3 marks)

Q7.

Solve the simultaneous equations

$$3x - 4y = 11$$
$$9x + 2y = 5$$

x = ...

y = ...

(Total for question = 3 marks)

Q8.

3 teas and 2 coffees have a total cost of £7.80
5 teas and 4 coffees have a total cost of £14.20

Work out the cost of one tea and the cost of one coffee.

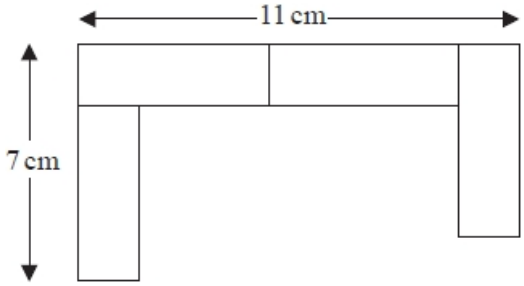
tea £ .....

coffee £ .....

(Total for question = 4 marks)

Q9.

A pattern is made using identical rectangular tiles.



Find the total area of the pattern.

..... cm^2

(Total for question is 4 marks)