

A125 Simultaneous equations 1

Q1.

Solve the simultaneous equations

$$\begin{aligned}4x + y &= 25 \\ x - 3y &= 16\end{aligned}$$

$x = \dots\dots\dots, y = \dots\dots\dots$

(Total for question is 3 marks)

Q2.

Solve the simultaneous equations

$$\begin{aligned}3x + y &= -4 \\ 3x - 4y &= 6\end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for question = 3 marks)

Q3.

Solve the simultaneous equations

$$\begin{aligned}4x + y &= 10 \\x - 5y &= 13\end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for question = 3 marks)

Q4.

Solve the simultaneous equations

$$\begin{aligned}2x + 3y &= 10 \\4x - y &= -1\end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for question = 3 marks)

Q5.

Solve the simultaneous equations

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

$$2x - 4y = 2$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for question = 3 marks)

Q6.

Solve the simultaneous equations

$$\begin{aligned}5x + y &= 21 \\ x - 3y &= 9\end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for question = 3 marks)

Q7.

Solve the simultaneous equations

$$3x - 4y = 11$$

$$9x + 2y = 5$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(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.

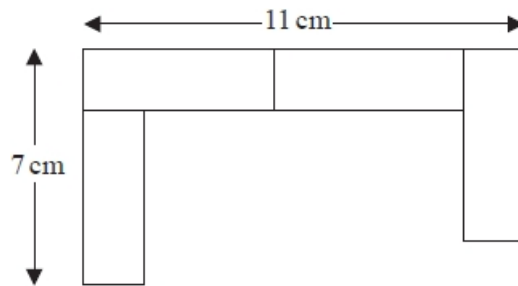
tea £

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)