

Simultaneous Equations

1

Solve the simultaneous equations

$$2x + y = 11$$

$$x + y = 7$$

$$\begin{array}{|c|c|c|} \hline x & x & y \\ \hline \end{array} = 11$$

$$\begin{array}{|c|c|} \hline x & y \\ \hline \end{array} = 7$$

Answer

2

Solve the simultaneous equations

$$3x + y = 14$$

$$x + y = 6$$

$$\begin{array}{|c|c|c|c|c|} \hline x & x & x & y & \\ \hline \end{array} = 14$$

$$\begin{array}{|c|c|} \hline x & y \\ \hline \end{array} = 6$$

Answer

3

Solve the simultaneous equations

$$2x + 3y = 16$$

$$2x + y = 8$$

$$\begin{array}{|c|c|c|c|c|c|} \hline x & x & y & y & y & \\ \hline \end{array} = 16$$

$$\begin{array}{|c|c|c|} \hline x & x & y \\ \hline \end{array} = 8$$

Answer

4

Solve the simultaneous equations

$$4x + y = 23$$

$$x + y = 8$$

$$\begin{array}{|c|c|c|c|c|c|} \hline x & x & x & x & y & \\ \hline \end{array} = 23$$

$$\begin{array}{|c|c|} \hline x & y \\ \hline \end{array} = 8$$

Answer

5

Solve the simultaneous equations

$$3x + 2y = 19$$

$$x + 2y = 9$$

Answer

6

Solve the simultaneous equations

$$5x + 2y = 24$$

$$3x + 2y = 16$$

Answer

7

2 adult tickets and 1 child ticket cost £25. 1 adult ticket and 1 child ticket cost £16. Find the cost of each ticket.

Answer

8

Two numbers add up to 20. Their difference is 4. Find the two numbers.

Answer

Simultaneous Equations *further practice*

9

Solve the simultaneous equations

$$4x + 3y = 29$$

$$x + 3y = 14$$

Answer

10

Solve the simultaneous equations

$$3x + y = 17$$

$$2x - y = 8$$

Answer

11

3 bags of compost and 2 plant pots cost £19. 1 bag of compost and 2 plant pots cost £9. Find the cost of a bag of compost and the cost of a plant pot.

Compost

Plant pot

12

Solve the simultaneous equations

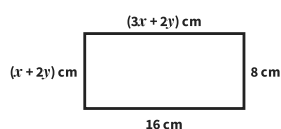
$$y = 2x + 1$$

$$3x + y = 16$$

Answer

13

This shape is a rectangle. Find x and y .



Answer

14

Solve the simultaneous equations

$$2x + 3y = 13$$

$$x + y = 5$$

Answer

15

2 notebooks and 3 pens cost £5.50. 1 notebook and 2 pens cost £3.25. Find the cost of a notebook and the cost of a pen.

Notebook

Pen

16

Leah solves

$$5x + 2y = 22$$

$$3x + 2y = 14$$

She subtracts and writes $2x = 36$, so $x = 18$. What has Leah done wrong? Find the right answer.

Answer
