Simultaneous Equations

Exam Style Questions

1. Solve the following simultaneous equations

$$7x + 2y = 46$$
$$x + 2y = 10$$

$$x = \dots$$

 $y = \dots$

(3 marks)

2. Solve the following simultaneous equations

$$6x + y = 20$$
$$x + y = 5$$

$$x = \dots$$

$$y = \dots$$

$$x + 8y = 36$$

$$x + y = 1$$

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$$y = \dots$$

(3 marks)

4. Solve the following simultaneous equations

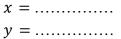
$$7x - 4y = 22$$

$$3x + 4y = 8$$

 $x = \dots$

y =

$$3x + 2y = 12$$
$$x - 2y = 4$$



(3 marks)

6. Solve the following simultaneous equations

$$12x - 5y = 20$$
$$8x - 5y = 16$$

$$x = \dots$$

$$3x - 8y = 17$$

$$7x - 8y = 5$$

$$x = \dots$$

(3 marks)

8. Solve the following simultaneous equations

$$3x + 7y = 4$$

$$2x + 5y = 1$$

 $x = \dots$

 $y = \dots$

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

$$x = \dots$$
 $y = \dots$
(3 marks)

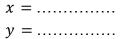
10. Solve the following simultaneous equations

$$3x + 2y = 6$$
$$x + 6y = 8$$

 $x = \dots$

y =

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



(3 marks)

12. Solve the following simultaneous equations

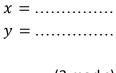
$$3x - 2y = 2$$

$$5x - 3y = 1$$

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

$$5x - 2y = 9$$

$$6x + 5y = 3$$



(3 marks)

14. Solve the following simultaneous equations

$$11x - 2y = 13$$

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

 $x = \dots$

y =

JP Maths Revision

15. 4 apples and 2 bananas cost £10.2 apples and 2 bananas cost £8.Find the cost of 1 apple and 1 banana.	
	£
16. The weight of 3 guinea pigs and 9 rats is $11kg$. The weight of 3 guinea pigs and 2 rats is $5kg$. Find the total weight of 5 guinea pigs and 5 rats. Give your answer correct to 3 significant figures.	
	<i>kg</i> (3 marks)

17. A T-shirt costs £9 more than a jumper.	
The total price of 2 T-shirts and 1 jumper is £3	36
Find the total cost of 3 T-shirts and 5 jumpers.	



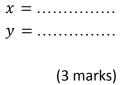
(3 marks)

18. 3 cups of tea and $3 \text{ cups of coffee cost } \pounds 4. 20.$

 $2\ \mbox{cups}$ of tea and $4\ \mbox{cups}$ of coffee cost £3. 80.

Find the total cost of $5\ \mathrm{cups}$ of tea and $4\ \mathrm{cups}$ of coffee.

$$x = 2y - 3$$
$$2x + 5y = 12$$



20. Solve the following simultaneous equations

$$5x = 3y + 18$$
$$x = -2y + 27$$

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