

## Simultaneous Equations



# REVISE THIS TOPIC

CHECK YOUR ANSWERS



Solve the simultaneous	ous equations
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4x + y = 14







$$2x + 7y = 30$$
$$2x + 2y = 10$$



#### 3 Solve the simultaneous equations

$$9x + 3y = 57$$
  
 $2x + 3y = 36$ 





3

4 Solve the simultaneous equation
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$$20x + y = 90$$
$$9x + y = 46$$



[3 marks]

### 5 Solve the simultaneous equations

$$4x + 5y = 61$$
  
 $4x + 2y = 34$ 



[3 marks]



$$3x + 3y = 27$$
$$2x - 3y = 8$$



[3 marks]

$$x =$$

Solve the simultaneous equations 7

$$6x - 2y = 22$$







$$9x + 7y = 59$$
$$3x - 7y = 1$$



[3 marks]

$$x =$$

9 Solve the simultaneous equations

$$8x + 5y = 39$$





[3 marks]





$$3x - 4y = 29$$
$$x - 4y = 7$$



[3 marks]

$$x =$$

11 Solve the simultaneous equations

$$2x + 8y = 50$$
  
 $2x - 3y = 17$ 





$$3x + 7y = 43$$
$$x + 2y = 13$$



[3 marks]

$$x =$$

13 Solve the simultaneous equations

$$9x + 4y = 57$$
  
 $4x + 2y = 26$ 



[3 marks]







14 Solve the simultaneous equation	14	Solve the simultaneous equations
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$$13x + 5y = 51$$
$$2x + y = 9$$



#### 15 Solve the simultaneous equations

$$8x + 3y = 73$$
  
 $4x - 5y = 17$ 





$$3x + 6y = 48$$
$$4x - 3y = 9$$



[3 marks]

x =

17 Solve the simultaneous equations

$$4x + 3y = 33$$
  
 $3x + 2y = 24$ 



[3 marks]





18	Solve	the	simultaneous	equations
10	COIVE	uic	Simulation	cquations

$$5x + 3y = 38$$
$$2x - 5y = 9$$



$$x =$$

#### 19 Solve the simultaneous equations

$$8x - 5y = 49$$

$$3x - 2y = 18$$







20	Solve the simultaneous	equations

$$8x + 5y = 29$$
  
 $2x + 5y = 26$ 



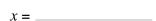
#### 21 Solve the simultaneous equations

$$6x + 3y = 33$$

$$6x - 5y = 57$$



[3 marks]









22	Solve the	simultaneous	equations
	COIVE LIN	, on manual looks	oquations

$$5x + 8y = -1$$
  
 $3x - 8y = 25$ 



#### 23 Solve the simultaneous equations

$$3x + 6y = 12$$
$$3x + 4y = 7$$





$$6x + 3y = 21$$
$$4x + 5y = 2$$

[3 marks]

$$x =$$

25 Solve the simultaneous equations

$$3x + 5y = 10$$

$$5x - 7y = 9$$

[3 marks]



*x* = \_\_\_\_\_







$$10x + 3y = 22$$
$$4x + 5y = 43$$

[3 marks]

27 Solve the simultaneous equations

$$5x + 2y = 4$$

$$4x + y = 3$$





$$2x - 3y = 9$$
$$6x + y = 2$$

[3 marks]

29 Solve the simultaneous equations

$$3x + 2y = 3$$
$$4x + 6y = 5$$

[3 marks]



12





$$3x - 3y = 27$$
  
 $4x + y = 3.5$ 

[3 marks]

$$x =$$

31 Solve the simultaneous equations

$$5x - 2y = 1.1$$

$$4x - 3y = 2$$





A shop sells pencils and rulers.  The cost of 5 pencils and 2 rulers is £0.99	
The cost of 1 pencil and 10 rulers is £1.35	
Work out the cost of 1 pencil and the cost of 1 ruler.	[3 marks
Cost of 1 pencil = Cost of 1 ruler =	
A machine makes hats and gloves but only makes one item at a time.	
The time taken to make a hat is 2 minutes longer than the time taken to make a glove.	
The machine makes 4 hats and 6 gloves in 13 minutes.	
Work out how long the machine would take to make 1 hat and 1 glove.	[4 marks]

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Solutions



A cinema has adult tickets and child tickets The price of each ticket type is fixed.	S.
Tom buys 3 adult tickets and 4 child tickets Lily buys 2 adult tickets and 3 child tickets	
Carolyn buys 1 adult tickets and 2 child tick Work out how much Carolyn paid for the tick	

