Name:\_\_\_\_\_ Maths Group: \_\_\_\_\_ Tutor Set: \_\_\_\_\_

## Homework Booklet KS3 Levels 3-8

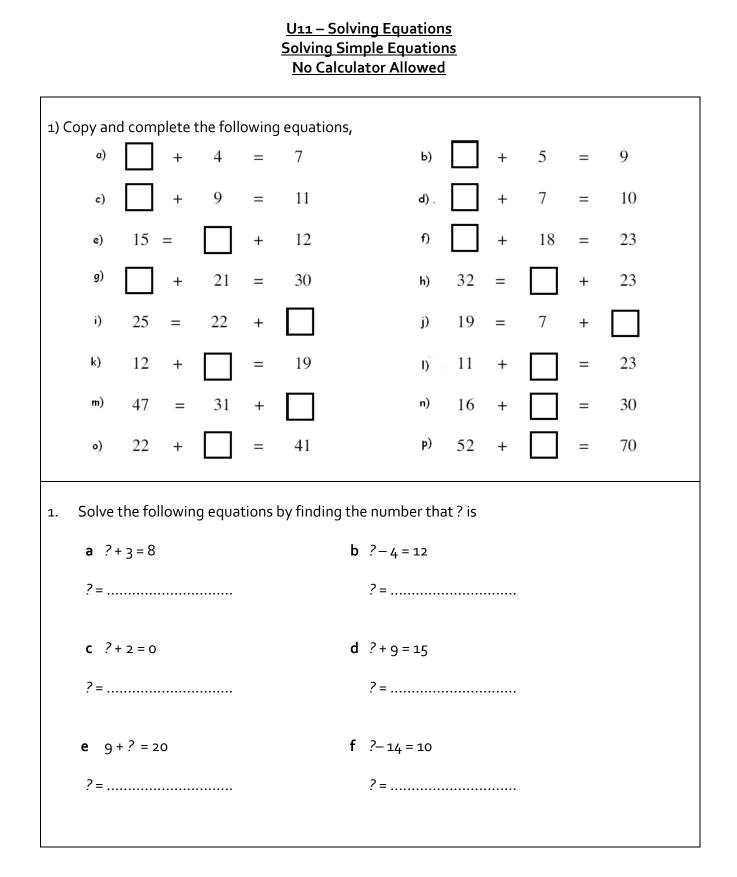
## Unit 11 – Solving Equations

### Remember to use the back of a page if you need more working out space.

Complete this table indicating the homework you have been set and when it is due by.

Date	Homework	Due By	Handed In

Please take care of the booklet as you will be required to make a donation to replace it if lost or damaged beyond use.



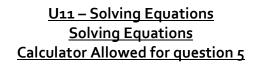
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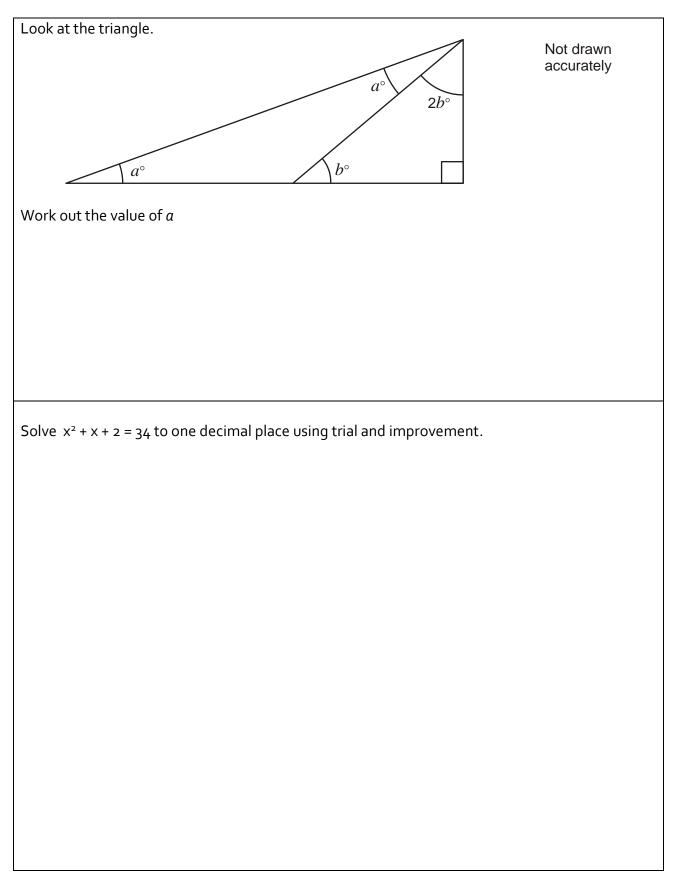
#### <u>U11 – Solving Equations</u> <u>Solving One Step Equations</u> <u>No Calculator Allowed</u>

2. Now solve the following equations by finding the number that x is				
<b>a</b> x + 3 = 12	<b>b</b> $x - 7 = 15$			
<i>x</i> =	<i>x</i> =			
<b>c</b> 19 - <i>X</i> = 12	<b>d</b> <i>x</i> -1=1			
x =	<i>x</i> =			
<b>e</b> 15 - x = 8	<b>f</b> 7 + x = 16			
<i>x</i> =	<i>x</i> =			
2)Solve the following equations,				
a) 2x = 32 x= b) 5x = 40 x=	c) 9d = 27			
d) 15a = 45 a= e) 3r = 36 r=	f) 7y = 35 y=			
g) 2w = 44 w= h) 4t = 36 t=	i) 7p = 42			
j) 3n = 69 n= k) 4t = 48 t=	l) 36 = 2q q=			

Solving Equations No Calculator Allowed				
Solve the following			Level 5	
1) 2W = 18	2) 6y = 36	3) 5m = 30		
4) 2a = 16	5) 2x + 3 = 15	6) 3x + 1 = 13		
7) 2(x + 4) =12	8) 6x - 8 = 10	9) 25 = 5x + 15		
10) 10 = 2(4X - 7)	11) 6x – 3 = 10	12)7+4r=3		
Solve these equations			Level	
1) 4x + 3 = 2x + 11	2) 5X + 7 = 3X + 11	3) 2x - 4 = 5x - 19	6-7	
() 2(2) - 2) - 2) - 40	5) 77 4 4 - 107 - 20			
4) $2(3x - 1) = 3x + 10$	5) 7x + 4 = 10x – 20	6) 9x + 7 = 15x + 1		
7) 8x + 3 = 2x + 21	8) 3x - 6 = 10 - x			

# U11 - Solving Equations





#### <u>U11 – Solving Equations</u> Solving Simultaneous Equations <u>Calculator Allowed</u>

Solve these simultaneous equations. You must show your working. 1. *x* + 2*y* = 27 x + 2y =5 2. x - 5y = 30 x + 3y = 19 3. 3x + 7y = 18x + 2y = 5 4. 5x - 2y = 163x - 2y = 8 5. x = 10- y y = x + 8

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#### <u>U11 – Solving Equations</u> <u>Inequalities</u> <u>No Calculator Allowed</u>

1.	Solve the following inequalities
	a) 5x-3<27
	<i>b</i> ) $7a \ge a + 9$
	c) $3a-2 \ge 5a-9$
	d) -1 ≤ 2n + 3 < 7

