

Maths Workout - Algebra & Problem Solving

Topic 16 - Solving Equations 2				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Solve an equation with up to 1 bracket on each side</i>	<i>Solve an equation with up to 3 brackets on each side</i>	<i>Solve an equation with fractions</i>	<i>Solve a problem using algebraic modelling</i>	<i>Find an approximate solution to an equation by trial and improvement</i>
1. Complete the solution to an equation of the form $4x+1=2x+9$	1. Solve an equation of the form $4(x-1)+3=2(x+2)$	1. Demo: Solve an equation with a fraction by multiplying both sides by the denominator	1. Solve a problem using an equation	1. Demo: Find an approximate solution to an equation by trial and improvement (1.d.p.)
2. Solve an equation of the form $4x+1=-2x-9$	2. Solve an equation of the form $3-4(x-1)=2(x+2)$	2. Complete the solution to an equation of the form $x/2+1=7$	2. Solve a problem using an equation	2. Find an approximate solution to an equation by trial and improvement (1.d.p.)
3. Using an equation to solve a problem.	3. Solve an equation of the form $3-4(2x-1)=2(5x+2)$	3. Complete the solution to an equation of the form $x/2-1=7$	3. Solve a problem using an equation	3. Demo: Find an approximate solution to a more complex equation by trial and improvement (1.d.p.)
4. Solve a simple equation of the form $2(x+1)=8$, $2(x-1)=-5$	4. Solve an equation of the form $4(x-1)+3x=2(x+2)$	4. Solve an equation of the form $x/2+3=10$, $x/2-3=9$	4. Solve a problem using an equation	4. Find an approximate solution to an equation by trial and improvement (1.d.p.)
5. Solve a simple equation of the form $-2(x+1)=8$, $-(x-1)=5$	5. Solve an equation of the form $4(x-1)+3x=2(x+2)+3$	5. Complete the solution to a equation of the form $(x+1)/2=7$, $1/2(x+2)=8$	5. Solve a problem using an equation	5. Demo: Find an approximate solution to an equation by trial and improvement (2.d.p.)
6. Complete the solution to an equation of the form $4(x+1)=2(x+3)$	6. Solve an equation of the form $2(x-2)+3x-3(x-2)=3(x+1)-4(x-1)+4$	6. Demo: Solve an equation with a fraction by multiplying throughout by the denominator	6. Solve a problem using an equation	6. Find an approximate solution to an equation by trial and improvement (2.d.p.)
7. Complete the solution to an equation of the form $4(x-1)=2(x+3)$	7. Solve an equation of the form $2(x-2)+3(4-x)+3(x-2)=3(x+1)+4(x-1)+4$	7. Solve an equation of the form $(x+1)/2+1=7$, $1/2(x+2)+x=8$	7. Solve a problem using an equation	7. Solve a problem by trial and improvement
8. Complete the solution to an equation of the form $-4(x-1)=2(x-3)$	8. Speed Response: Solve equations of the form $2(x-2)+3(4-x)+3(x-2)=3(x+1)+4(x-1)+4$	8. Solve an equation of the form $(x+1)/x+1=x+1$, $1/2(x+2)+x=2-3$	8. Solve a problem using an equation	8. Solve a problem by trial and improvement
9. Solve an equation of the form $4(x-1)=2(x-2)$		9. Demo: Solve an equation with fractions by multiplying throughout by the LCM of the denominators	9. Solve a problem using an equation	
10. Solve an equation of the form $-4(x-1)=-2(x+2)$		10. Solve an equation with up to 2 different denominators	10. Solve a problem using an equation	
		11. Solve an equation with up to 3 different denominators	11. Solve a problem using an equation	
			12. Solve a problem using an equation	