

3.4 CA
Multi-Step Equations

Name: _____

Solve each equation.		
1. $10(1+3b) = -20$	2. $-6(1-5v) = 54$	3. $8 = 8v - 4(v+8)$
4. $\frac{5b}{6} + 8 = -11$	5. $\frac{4t}{5} - 16 = -40$	6. $-6 = \frac{-2n-3}{4}$
7. $\frac{3-9t}{7} = 3$	8. $\frac{1}{2}(3x-2) = 8$	9. $\frac{7-x}{2} = 5$

Solve the equation below. Justify each step in the proof table

10. $121 = -5 + 6(-4v + 5)$	Statements	Reasons

Solve the equations below.

11. $9n^2 + 10 = 91$

12. $\frac{(x-3)^2}{4} = 4$

13. $\frac{2}{5}(m^2 + 5) = 42$

14. $\sqrt{2x+1} = 3$

15. $\sqrt{2-y} + 1 = 5$

16. $3 - \sqrt{y+3} = 0$

17. $5 - \sqrt{x+3} = 3$