Foundations of Algebra Day 3: Justify Steps of Equations	Unit 4: Equations & Inequalitie	es Practice Name:
Practice Assignment		0 25 50 75 100
Directions: Identify each Property of 1.6+0=6	Operations or Property of Equality. 2. $4 \cdot 5 = 5 \cdot 4$	3. $4(x + 6) = 4x + 24$
4. $\frac{1}{5} \cdot 5 = 1$	5. x – 4 + 4 = 5 + 4	6. If -3 = y, then y = -3

Directions: For each equation that has been solved, name the property that describes each step of the equation solving process. 7.

5x + 15 = 75	Given
5x = 60	
x = 12	

8.

$\frac{t}{3} + 14 = 29$	Given
$\frac{t}{3} = 15$	
t = 45	

9.

3(x-2)=12	Given
3x - 6 = 12	
3x = 18	
x = 6	

10.

3(x+2) - 7 + 2x = 14	Given
3x + 6 - 7 + 2x = 14	
5x - 1 = 14	
5x = 15	
x = 3	

11.

3x + 15 - 9 = 2(x + 2)	Given
3x + 6 = 2(x + 2)	
3x + 6 = 2x + 4	
x + 6 = 4	
x = -2	

Solve each equation and determine if it has one solution, no solution, or infinite solutions.

12. 4(2x + 1) - 3(x - 2) = 10 + 5x13. 10(x-2) + 15 = 8x + 7

14. x + 6(x - 1) = 7(3 + x)

15. 12x + 9 - 4x - 4 = 3x - 7 - x + 30

16.3(3x + 4) - 2x - 5 - 7x = 20

17. -9x + 12 + 4(3x - 3) = 7(x - 2) - 4x + 14