Algebra 1	Name		
1-3 Solving Eqs w/ Variables on Both Si	des Date	A#7	
Goal: To solve multistep equations with va	ariables on both sides.		
Ex 1 : Solve the equation. Check the solution	on.		
6x + 3 = 8x - 21			
Check 1 : $7k - 4 = 5k + 16$	Check 2 : $m - 5 = 3m$		
Ex 2 : Solve the equation. Check the solution. 2(a + b) = 0a + 2			
2(t-0) - 3t + 2			
Check 3: $2d+1=5(3-d)$	Check 4: $8-4r = (r+5)(-2)$		

Algebra 1 1-3 Solving Eqs w/ Variables on Both Sides

Ex 3 : Solve the equation. Do a mental check.: $\frac{1}{2}(n-4)-7 = -2n+6$	Check 5: $\frac{5}{8}(16d+24)=6(d-1)+1$

Application: Cameron pays \$0.95 per song with his current music service. A new download music service charges \$0.89 per song with a \$12 joining fee. Should Cameron switch to the new service?

Practice: A two-year prepaid membership at Gym A costs \$250 for the first year



plus \$19 per month for the second year. A two-year prepaid membership at Gym B costs \$195 for the first year plus \$24 per month for the second year. Leah says the cost for both gym memberships will be the same after the 11th month of the second year. Do you agree?

Ex 4: Infinitely Many Solutions	Ex 5: No Solutions	∎×33
Solve $4x + 6 = 2(2x + 3)$	Solve $4x + 6 = 2(2x + 7)$	

Practice: Determine the number of solutions each equation has.

a.
$$t - 27 = -(27 - t)$$
 b. $16(4 - 3m) = 96\left(-\frac{m}{2} + 1\right)$ c. $11v - 3 = 4(v + 5)$

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