Algebra 1 Solving Equations REVIEW

Name: _____ Date: _____ Hour: _____

1.) Mr. Martin wrote the following expression for the phrase **5 more than a number.** $5 + x$ Is he correct or incorrect? Explain.	
2.) Evaluate the expression for $x = -3$ and $y = 2$. $x^2 + y^2$	13
3.) Evaluate the expression for $x = 4$ and $y = -3$. $-x^2 - y^3$	-25
4.) Solve for x. $2x + 3(x - 4) = 3$	$x = 3$
5.) Solve for y. $7y - 14 = 4(y - 5)$	$y = -2$
6.) Solve for a. $7 - 2a = 14$	$a = -7/2$

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7.) Solve for x. $2(x + 4) = 2x + 8$	Identity ∞ Sol.
8.) Solve for y. $4(x - 3) = 2(2x + 8)$	No Solution
9.) Tommy was thinking of 3 consecutive numbers, but forgot them! All he remembers is that they added to -21. Can you tell him his **second term**?	-7
10.) The length of a rectangle is 9 cm more than the width. What are the dimensions of the rectangle if the perimeter is 42 cm?	w = 6cm l = 15cm

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11.) Bilal and Ali are renting an apartment. They pay the landlord the first month's rent. The landlord also requires them to pay an additional half months' rent. For a security deposit. The total they pay the landlord before moving in is $2325.00. How much is their monthly rent?	$1550/month
12.) Selena solved the equation 12 - 3y = 15. Her work is shown below. Is she correct? Explain your answer. 12 - 3y = 15 3y = 3 y = 1	No. Selena forgot to bring down the negative. y=-1
13. The lengths of the sides of a triangle are represented by three consecutive odd integers. If the perimeter of the triangle is 105 feet, find the lengths of its sides.	33, 35, 37