PAIRS CHECK & VERIFY EQUATIONS!

Directions: Solve the problems on your side of the paper. Write your final answer in the box provided. When finished, you must verify that your partner's answers are correct. This assignment will be graded as ***one grade***.

NAME:	NAME:
1. –20 = –4x – 6x	1. 6 = 1 – 2x + 5
2. 8x – 2 = –9 + 7x	2. x + 5 = –5x + 5
3. 14 = –(x – 8)	3. –(7 – 4x) = 9
4. 2(4x – 3) – 8 = 4 + 2x	4. 3x – 5 = –8(6 + 5x)
5. –3(4x + 3) + 4(6x + 1) = 43	5. –5(1 – 5x) + 5(–8x – 2) = –4x – 8x
6. P = 2L + 2w, solve for L	6. P = 2l + 2w, solve for W
7. $A = \pi r^2$, solve for r	7. $E = mc^2$, solve for c.
8. The length of a rectangle is 3 times the width. The perimeter is 96cm. Find the length and width. Length: _____ Width: _____	8. The length of a rectangle is 5m greater than the width. The perimeter is 70cm. Find the length and the width. Length: _____ Width: _____
9. Find three consecutive integers whose sum is –147. 1st: _____ 2nd: _____ 3rd: _____	9. Find three consecutive integers whose sum is 48. 1st: _____ 2nd: _____ 3rd: _____

10. Find three consecutive odd integers such that the sum of the smallest and 4 times the largest is 61. 1st: _____ 2nd: _____ 3rd: _____	10. Find three consecutive even integers such that the sum of the smallest and the largest is 36. 1st: _____ 2nd: _____ 3rd: _____
11. Andy is twice as old as Kate. In 6 years, their ages will total 60. How old is each now? Kate: _____ Andy: _____	11. Mr. Joe is 23 years older than his daughter. In 5 years, their ages will total 63. How old are they now? Daughter: _____ Mr. Joe: _____
12. The standard form of a linear equation is Ax + By = C. Solve this equation for y.	12. The slope intercept form of a linear equation is y = mx + b. Solve this equation for x.
13. The volume formula for a pyramid is $V = \frac{1}{3}Bh$. Solve this equation for h.	13. The volume formula for a cone is $V = \frac{1}{3}\pi r^2 h$. Solve this equation for h.
14. The surface area formula for a sphere is $S = 4\pi r^2$. Solve this formula for r.	14. The surface area formula for a sphere is $S = 4\pi r^2$. Solve this formula for r.
15. If the SA of the above problem is 200.96, find the length of the radius. (Use 3.14 for π)	15. If the SA of the above problem is 452.16 find the length of the radius. (Use 3.14 for π)
I **verify** that I have checked over my partner's answers and agree with all the answers. Sign: _____	I **verify** that I have checked over my partner's answers and agree with all the answers. Sign: _____