Name_____ Date _____

Mr. Tallman Math 7

Homework #9 – One Step Equations Involving Addition and Subtraction

Solve the following equations. Show all work. Check the even numbered problems.

1) $x + 7 = 17$

$-7 \quad -7$

$x = 10$

2) $y - 21 = 30$

$+21 \quad +21$

$y = 51$

$51 - 21 = 30$

$30 = 30$ ✓

3) $a - 6 = -13$

$+6 \quad +6$

$a = -7$

4) $z + 4 = -24$

$-4 \quad -4$

$z = -28$

$-28 + 4 = -24$

$-24 = -24$ ✓

5) $-6 + x = -15$

$+6 \quad +6$

$x = -9$

6) $9 + b = 7$

$-9 \quad -9$

$b = -2$

$9 + b = 7$

$9 + (-2) = 7$

$7 = 7$ ✓

7) Ally solved the equation $x - 12 = 10$ and said $x = -2$. Is Ally correct? If not, solve the equation to determine the correct solution.

No. She is not Correct.

$x - 12 = -2$

$+12 \quad +12$

$x = 10$

8) A scuba diver was 30 feet below the surface of the ocean looking at some coral. He swam up a certain number of feet and then stopped at 13 feet below sea level to look at a school of fish swimming by. Write and solve an equation to determine how far up he swam from the coral to the school of fish. Be sure to include a let statement.

Let x = distance he swam up.

$-30 + x = -13$

$+30 \quad +30$

$x = 17$ ft