Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1

**Chapter 1, Sections 1-4 Quiz REVIEW**

Directions: Solve each problem as indicated. **Remember to CHECK YOUR WORK ON EVERY PROBLEM.**

Part 1: **Solve the equation**

1. 0.9 = X + 8.1

2. -

3. 

4. 2.4z + 1.2z = -7.2

5. 

6. -

7. -8*ᴨ* = p + 12*ᴨ*

8. 3(2p – 6) = 2(3p – 9)

9. -3 | 6y – 7 | = -18

10. | 2w – 9 | = 1

Solve the equation for *y*:

11. 14 = 8x + 2y

Solve the equation for the bold variable

12. A = ½ b**h** 13. p = q – 5r

Solve each word problem. Make sure to use appropriate units in your answer (when applicable).

14. The cost of your new book bag is $11.50 more than the cost *c* of your old book bag. You pay $47 for your new book bag. Write and solve an equation to find the cost of your old book bag.

15. You purchase 5 movies and a CD. The cost of the CD is $8.50. Your total bill before tax is $38.45. Write and solve an equation to find the cost of a movie.

16. The cost (in dollars) of making *w* purses is represented by *C = 18w + 53*. How many purses are made when the cost is $611? Explain your reasoning.

17. The sum of the interior angles of a quadrilateral is 360°. Find the value of x using the quadrilateral. Then, find the remaining angle measures.

