Algebra 1

Chapter 2 Review (2.1-2.8)

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

Class:\_\_\_\_\_\_\_\_\_\_\_\_

**Show all of your work for full credit.**

1. Translate the following sentence into an equation:

The quotient of three and a number x minus one is the same as two. 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Solve: 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Solve: 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Solve: 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Solve: -5x = -25 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Evaluate: 6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Translate into a sentence. 7.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solve each equation and check your solution.**

8. 8.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. 9.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. 7x =5(2x-2) 10.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. 11.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12.a. , Solve for x 12.a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. P = 2(L + W) , solve for W 12b.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. 3x-2y =-6 , solve for x 12c.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. State whether the percent of change is a percent of increase or a percent of decrease. Then find the percent of change.

Original: 12 13. Percent=\_\_\_\_\_\_\_\_\_

New: 17 Increase / Decrease

14. State whether the percent of change is a percent of increase or a percent of decrease. Then find the percent of change.

Original: 22 14. Percent=\_\_\_\_\_\_\_\_\_

New: 17 Increase / Decrease

15. Determine whether each pair of ratios are equivalent ratios. MUST Show your work for credit.

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17. Cancel like terms, reduce the fraction and write the final answer for the unit.

18. Use unit analysis to convert:

a. 3 years into 🡪 \_\_\_\_\_\_\_ minutes

b. 2/3 meter per second into 🡪 \_\_\_\_\_\_\_\_\_\_centimeter per hour

c. 10 inches per second into 🡪 \_\_\_\_\_\_\_\_\_\_feet per minutes