Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Algebra 1 HW – Unit 2:1 Review 2

**Show ALL work on the back or on another sheet of paper that is stapled to your homework.**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| 1. Simplify: | 1.Simplify: | 1. Simplify: | 1. Simplify: |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 2. Simplify: | 2.Simplify: | 2.Simplify: | 2.Simplify: |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 3. Solve: | 3. Solve: | 3. Solve: | 3. Solve: |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 4. Solve: | 4. Solve: | 4. Solve: | 4. What is the difference between precision and accuracy? |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 5. Solve the inequality . Give the answer in interval notation. | 5. Solve: | Algebra Riddle:  **Use exactly four 4’s to form every integer from 0 to 10.**  (Feel free to go higher as a challenge!)  Example:  0 =  1 =  2 =  3 =  4 =  5 =  6 =  7 =  8 =  9 =  10 = | Algebra Riddles:   1. What is   \_\_+ \_\_x \_\_- \_\_ = 22?  Using only the numbers: 2, 3, 4, 8.   1. How many ways are there to list the numbers one through ten so that no number appears in its own position (i.e. 1 is not first in the list, 2 is not second, three is not third, etc.)? |
| **Answer:** | **Answer:** |
| 6. Solve the double inequality . (Set up two inequalities and solve) | 6. Solve for a: |
| **Answer:** | **Answer:** |
| 7. Solve the inequality . Write the solution in interval notation and graph on a number line. | 7. Solve and graph your answer on a number line: |
| **Answer:** | **Answer:** |
| 8. Solve the inequality . Write the solution in interval notation and graph on a number line. | 8. What algebraic property is this? |
| **Answer:** | **Answer:** |
| 9. Write the inequality algebraically, graph on a number line, and write in interval notation:  **X is greater than 5** | 9. What algebraic property is this? |
| **Answer:** | **Answer:** |
| 10. Write the inequality algebraically, graph on a number line, and write in interval notation:  **X is less than or equal to 3** | 10. Write a system of equations for this problem, then solve:  **Kristin spent $131 on shirts. Fancy shirts cost $28 and plain shirts cost $15. If she bought a total of 7 then how many of each kind did she buy?** |
| **Answer:** | **Answer:** |
| 11. Write the inequality algebraically, graph on a number line, and write in interval notation:  **X is greater than or equal to -4** | 11. Write a system of equations for this problem, then solve: **There are 13 animals in the barn. Some are chickens and some are pigs. There are 40 legs in all. How many of each animal are there?** |
| **Answer:** | **Answer:** |
| 12. Write the inequality in interval notation: | 12. Write a system of equations for this problem, then solve: **At Elisa's Printing Company LLC there are two kinds of printing presses: Model A which can print 70 books per day and Model B which can print 55 books per day. The company owns 14 total printing presses and this allows them to print 905 books per day. How many of each type of press do they have?** |
| **Answer:** | **Answer:** |
| 13. Write the inequality in interval notation. | 13. Write a system of equations for this problem, then solve: **A farmhouse shelters 10 animals. Some are pigs and some are ducks. Altogether there are 36 legs. How many of each animal are there?** |
| **Answer:** | **Answer:** |
| 14. Write the inequality in interval notation: | 14. Find the slope of the line that contains these two points. Then, write the point-slope equation using one of the points: |
| **Answer:** | **Answer:** |
| 15. Write the inequality in interval notation: | 15. Find the slope of the line that contains these two points. Then, make the point-slope equation using one of the points: |
| **Answer:** | **Answer:** |

**My Work**