Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Show all work on a separate sheet of paper***

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| 6TH GRADE  MATH REVIEW 3A  After Units 1-3 | Simplify each expression.  1. (3 **·** 3 **·** 3)² ÷ 3 + 3  2. ( 8 – 2)² ·(8 – 1)² ÷ 3  3. 36 ÷ 3 - 2³  4. 6 x (14 -24)² | You already have *n* dollars saved, and you plan to save an additional $12.50 per week.  5. Write an expression to represent the total amount of money you will have after *w* weeks.  6. How much money will you have after 10 weeks if you already have $35.75 saved? |
| Write each phrase as an algebraic equation.  7. The sum of x cubed and y  8. Two times the difference of x and 3.  9. Five more than twice a number | 10. A classroom has 35 desks. 27 of the desks are occupied. Write and solve an *addition* equation to find the number of empty seats. | 11. A class party will cost $160.00. There are 32 students in the class and each student will pay the same amount of money for the party. Write and solve a *multiplication* equation to find the amount each student will pay. |
| 12. Binders are on sale for $2.95. This price is $1.25 less than the regular price. Write and solve a *subtraction* equation to determine the regular price. | 13. Five friends will each contribute 35 pieces of their Halloween candy to be donated to a children’s shelter. Write and solve a *division* equation to determine how many total pieces the five friends will donate. | 14. Compare the statements. Replace the ? with >, =, or <.  **a**. 5 + (-8) + (-4) **?** 2 + (-9)  **b**. -9 + 13 **?** 11 + (-7) + (-10)  **c**. -5 + (-10) **?**  -4 + (-5) + (-6) |
| Use the distributive property to write equivalent expressions.  15. 5(3 + 7)  16. 8(100-4)  17. 3(11) - 3(4) | 18. You are planting the following flowers: 81 roses, 36 daisies, 27 petunias, and 54 marigolds. You want to plant the flowers in equal rows, with a single type of flower in each row.  **a.** What is the most flowers that can be in each row?  **b.** How many rows will you need for each type of flower? | 19. You and a neighbor are building fences of the same length. Each piece of your fence is 60 inches long, and each piece of your neighbor’s fence is 45 inches long. The 60-inch fence pieces cost $30 each. The 45-inch fence pieces cost $22 each.  **a**. What is the shortest possible fence length that both of you can build?  **b**. How many pieces of fence do each of you need for this length of fence?  **c**. Which fence costs less to build? |

**Gregg Colbert – 2015 Santiago Hills**