Name: Weekly Math Homework - 21 Teacher:

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| **Monday (wk 21)** | **Tuesday (wk 21)** | **Wednesday (wk 21)** | **Thursday (wk 21)** |
| 1. Simplify:  (-5m - 2mn - 6n) + (-6mn + 2m -3n) | 1. Simplify:  (-7x + 2xy +5y) - (-xy -3x -4y) | 1. Simplify:  -(-2rs + 3r - 6s) + (8r - 3s -7rs) | 1. Simplify:  (-3pq - 4q - p) - (-6q - 9pq -3p) |
| 2. Draw and label the length and width of **3** possible rectangles with an area of 6x + 18. | 2. Draw and label the length and width of **3** possible rectangles with an area of 20x + 30. | 2. Draw and label the length and width of **2** possible rectangles with an area of 8x + 20. | 2. Draw and label the length and width of **3** possible rectangles with an area of 12x + 30. |
| 3. Which of the expressions is equivalent to 4x - 8 - 4? Write true or false for each. Show work for each answer choice.  A. 4x + 12  B. 2(2x - 6)  C. 4(x - 3)  D. 4(x - 2) - 4 | 3. Which of the expressions is equivalent to 15x + 20 + 10? Write true or false for each. Show work for each answer choice.  A. 5(3x + 6)  B. 45x  C. 15(x + 2)  D. 5(3x -6) | 3. Which of the expressions is equivalent to 6x -24 + 6? Write true or false for each. Show work for each answer choice.  A. 6x + 18  B. 3(2x + 6)  C. 2(3x + 9)  D. 6(x + 5) | 3. Which of the expressions is equivalent to 8x - 16 - 8? Write true or false for each. Show work for each answer choice.  A. 8(x - 3)  B. 4(2x - 6)  C. 8(x - 2) + 8  D. 2(4x - 12) |
| 4. Which of the expressions is equivalent to 4(3x -2)? Write true or false for each.  A. 12x + 8  B. 2(6x - 4)  C. 12x - 8  D. 4(3x -1) -4 | 4. Which of the expressions is equivalent to 3(-2x +5)? Write true or false for each.  A. -6x + 5  B. -6x +15  C. 6(-x + 2) +3  D. -2x + 5 -2x + 5 -2x + 5 | 4. Which of the expressions is equivalent to -5(-2x -4)? Write true or false for each.  A. 10(x + 2)  B. -10x -20  C. 2(5x + 10)  D. 10x + 20 | 4. Which of the expressions is equivalent to 2(-x -5)? Write true or false for each.  A. -2x - 10  B. -2(x - 4) -2  C. -x - 5 -x - 5  D. -2x - 5 |
| 5. Todd, Kevin, Kris, and Anthony are all sharing the cost of a ski lodge rental.  The cost is $1500 for the week.   * Todd will pay 25% of the cost * Kevin will pay .20 of the cost * Kris will pay 35% of the cost * Anthony will pay the remainder   Tell how much money each will pay. | 5. Todd, Kevin, Kris, and Anthony are all sharing the cost of a ski lodge rental.  The cost is $2400 for the week.   * Todd will pay 15% of the cost * Kevin will pay .25 of the cost * Kris will pay 30% of the cost * Anthony will pay the remainder   Tell how much money each will pay. | 5. Kyle's weekly pay rate is $525. He receives a raise of 25%. How can he calculate his new weekly wage rate? Choose all that apply.  A. Multiply 525 by .25  B. Multiply 525 by 1.25  C. Add 525 + .25(525)  D. Divide 525 by 4 | 5. Heather is shopping for some new clothes for her birthday. An 8% sales tax must be added to the cost of her clothes. Choose all expressions that will show a way to calculate the **TOTAL** cost.  A. c + 0.08c  B. 0.08c  C. 1.08c  D. c + 0.8c |
| 6. The sum of 2 and a number is 7. Write and solve an equation to find the missing number. (Show ALL work!) | 6. The product of 3 and a number is 21. Write and solve an equation to find the missing number. (Show ALL work!) | 6. A number minus 3 is 5. Write and solve an equation to find the missing number.  (Show ALL work!) | 6. A number divided by 4 is 7. Write and solve an equation to find the missing number.  (Show ALL work!) |
| 7. Solve: (Show ALL work!)  A. -21 = 3 + b  B. 8b = 64 | 7. Solve: (Show ALL work!)  A. x + (-9) = 6  B. | 7. Solve: (Show ALL work!)  A. -10 + m = -24  B. 6g = 54 | 7. Solve: (Show ALL work!)  A. -7 + f = -14  B. |
| **8. Solve**  A.  B. | **8. Solve**  A.  B. | **8. Solve**  A.  B. | **8. Solve**  A.  B. |
| **9. Solve**  A.  B. | **9. Solve**  A.  B. | **9. Solve**  A.  B. | **9. Solve**  A.  B. |
| **10. Solve:**  A. -26 + (-32) C.  B. 41 - 62 D. -8 (-4) | **10. Solve:**  A.  C. -9(3)  B. -32 - (-25) D. -18 + 36 | **10. Solve:**  A. -54 + 15 C. -4 (8)  B.  D. 45 - (-35) | **10. Solve:**  A. -2(-9) C.  B. -36 + (-63) D. -50 - (-32) |