Name: Weekly Math Homework - 22 Teacher:

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| **Monday (wk 22)** | **Tuesday (wk 22)** | **Wednesday (wk 22)** | **Thursday (wk 22)** |
| 1. Simplify:  (2mn -3m +8n) + (-4m -2mn -5n) | 1. Simplify:  -(-4xy -3x +8y) + (-x -6xy +3y) | 1. Simplify:  (-5r -4s - 7rs) + (-2rs +9s -4r) | 1. Simplify:  (-6p - pq -3q) - (-5q - 6p+ 3pq) |
| 2. Draw and label the length and width of **3** possible rectangles with an area of 15x + 30. | 2. Draw and label the length and width of **3** possible rectangles with an area of 10x + 50. | 2. Draw and label the length and width of **2** possible rectangles with an area of 4x + 16. | 2. Draw and label the length and width of **3** possible rectangles with an area of 20x + 30. |
| 3. Which of the expressions is equivalent to 3x - 9 - 3? Write true or false for each. Show work for each answer choice.  A. 3x - 12  B. 3(x + 4)  C. 3(x - 3) - 3  D. 3x + 12 | 3. Which of the expressions is equivalent to -9x +15 + 3? Write true or false for each. Show work for each answer choice.  A. . 9x  B. -9x + 18  C. -3(3x + 5) +3  D. 3(-3x + 6) | 3. Which of the expressions is equivalent to 8x -14 - 2? Write true or false for each. Show work for each answer choice.  A. 8x - 16  B. 8(x - 2)  C. 8x + 16  D. 4(2x - 4) | 3. Which of the expressions is equivalent to 10x + 16 - 6? Write true or false for each. Show work for each answer choice.  A. 2(5x + 5)  B. 2(5x - 8) -6  C. -10(x - 1)  D. 5(2x + 2) |
| 4. Which of the expressions is equivalent to -5(-6x -3)? Write true or false for each.  A. -30x - 15  B. 15(2x + 1)  C. 10 (3x + 1) + 5  D. 30x + 15 | 4. Which of the expressions is equivalent to 2(-4x -6)? Write true or false for each.  A. -8x -12  B. -4(2x + 3)  C. 8x - 12  D. 2(-4x - 6) +6 | 4. Which of the expressions is equivalent to -6(-x + 5)? Write true or false for each.  A. 6x - 30  B. 2(3x - 10)  C. -6x + 30  D. 3(2x + 10) | 4. Which of the expressions is equivalent to -(-2x + 8)? Write true or false for each.  A. 2( x + 4)  B. 2x - 8  C. -2x - 8  D. 2( x - 4) |
| 5. Ann, Brenda, Ruth, and Donna are all sharing the cost of vacation rental in Hawaii.  The cost is $1850 for the week.   * Ann will pay 20% of the cost * Brenda will pay .25of the cost * Ruth will pay 30% of the cost * Donna will pay the remainder   Tell how much money each will pay. | 5. Don and Doris went out for dinner. A 20% tip needed to be added to the cost of the dinner bill. Choose all expressions that will show a way to calculate the **TOTAL** cost including tip.  A. .20d  B. 1.2d  C. d + 1.02d  D. d + .2d | Sam is opening a ski rental business. He doesn't know how much equipment he needs to purchase, but he knows the cost of the equipment. This is shown in the table below.   |  |  | | --- | --- | | **Item** | **Cost** | | Skis | $60 | | Boots | $60 | | Poles | $30 |   Which of the following expressions represent(s) Sam’s total cost to purchase his ski equipment? Explain each.  A. 60( x + y) + 30z  B. 60 + x + 60 + y + 30 + z  C. 60(x + y + 30z) | Sam is opening a ski rental business. He doesn't know how much equipment he needs to purchase, but he knows the cost of the equipment. This is shown in the table below.   |  |  | | --- | --- | | **Item** | **Cost** | | Skis | $60 | | Boots | $60 | | Poles | $30 |   Which of the following expressions represent(s) Sam’s total cost to purchase his ski equipment? Explain each.  A. 60x + 60y + 30z  B. 60(x + y + z -30)  C. 60(x + y + z) - 30z |
| 6. I think of a number, multiply it by 3 and add 15. My answer is 24 Write and solve an equation to find the missing number. (Show ALL work!) | 6. 331 students went on a field trip. Six buses were filled and 7 students traveled in cars. How many students were in each bus?  Write and solve an equation to find the missing number. (Show ALL work!) | 6 You bought a magazine for $5 and four erasers. You spent a total of $25. How much did each eraser cost? Write and solve an equation to find the missing number.  (Show ALL work!) | 6. Jill sold half of her comic books and then bought sixteen more. She now has 36. With how many did she begin? Write and solve an equation to find the missing number.  (Show ALL work!) |
| 7. Solve: (Show ALL work!)  A.  B. 9x - 7 = -7 | 7. Solve: (Show ALL work!)  **A.** -10= -10 + 7m **B.** | 7. Solve: (Show ALL work!)  A. 9x -1 =80 B. | 7. Solve: (Show ALL work!)  A. -15 = -4m + 5 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. -25 + (-16) C.  B. -65 - 24 D. -4 (6) | **10. Solve:**  A.  C. -8(-6)  B. -22 - (-38) D. -54 + 82 | **10. Solve:**  A. -60 -55 C. -4 (8)  B.  D. -35 - (-25) | **10. Solve:**  A. 5(-8) C.  B. 60 + (-75) D. -45 + 66 |