Math 7/7+ Qt 2 Wk 2 Spiral Review – No Work = No Credit – Must be in correct format!!!! Due: 10/13

1. Which of these shows $\dfrac{-2(18x-6y)}{-4}$ simplified?

   A. $(9x-3y)$ B. $(-9x+3y)$ C. $(16x-8y)$ D. $(36x-12y)$

2. Which answer shows the factored form of -8wx + 2wz – 6w?

   A. $-12(w+x+z)$ B. $2w(4x-z+3)$ C. $-8w(x+2z-6)$ D. $-2w(4x-z+3)$

3. Simplify: ⁻2.5(7.5 – 3x)?

4. Simplify: 2(3p – t) – (⁻4p + t)?

5. Expand the expression : $6y\left(\dfrac{2}{3}x+6k-\dfrac{1}{2}\right)$

   A. $4xy+6k-\dfrac{1}{2}$ B. $4x+36k-3$ C. $4xy+36ky-3y$ D. $4xy+36ky+3y$

6. Simplify: ⁻2(4x – 5y – 5x)

7. Simplify: $\dfrac{-2}{5}\left(x+0.8\right)+\dfrac{1}{50}$

8. Which expression is equivalent to $3(4x+10\div2+3)$?

   A. $12x+2$ B. $12x+8$ C. $12x+24$ D. $12x+6$

9. A boat rental company has two kinds of boats, rowboats and motorboats. The expressions below represent the cost, in dollars, for renting each kind of boat for x number of hours.

   Cost of a rowboat rental: 8.50x + 3

   Cost of a motorboat rental: 17.50x + 25

   Write an expression to represent how many more dollars it costs to rent a motorboat than a rowboat for *x* hours.

10. Mr. Martin bought 5.38 liters of grape juice, 3.37 liters of orange juice, and 3.4 liters of apple juice. How many liters of juices did Mr. Martin buy?

11. One dozen eggs weighs 33.6 ounces. Each of the 12 eggs weighs the same as the others. How much does each egg weigh?

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12. Melissa recorded the daily low temperatures over a five-day period.

Daily Low Temperatures

Day	Temperature (°F)
Sunday	16
Monday	16
Tuesday	−9
Wednesday	−10
Thursday	15

To find the average daily low temperature, Melissa must add all the values first. Which expression can be used to find the sum of the daily high temperatures in the table?

A. $16 + 9 + 10 + 15$

B. $2(16) − 9 − 10 − 15$

C. $16 + 16 − 9 + 10 + 15$

D. $2(16) − (9 + 10) + 15$

13. What is the sum of -3 and -17?

14. The rainfall amount last year was 4 inches below normal. The rainfall amount this year was 12 inches more than last year. What is the difference between the rainfall amount this year and the normal amount of rainfall?

15. A booster club had 476 spirit towels at the beginning of the basketball season. During the season, the 15 team members each sold 12 spirit towels. Which integer represents the change in the number of spirit towels that the booster club had?

A. 296   **B.** 180   **C.** $−180$ **D.** $−296$

16. A type of steel ball has a mass of 15.67 grams. What is the mass of 12 of these steel balls?

17. Marie spent $75 of her paycheck on clothes. She then spent $\frac{2}{5}$ of the remaining money on books. Next, she put half of the money that was left into her savings account and spent the remaining $60 on groceries. How much was Marie's paycheck?

18. The temperature was ⁻5°C at 6:00 a.m. It increased $\frac{3}{4}$ of a degree every hour for 6 hours. The temperature then increased $1\frac{1}{2}$ degrees every hour for 5 hours. What was the temperature at 5:00 p.m.?

19. Mr. Weber mailed 20 letters and 1 package last month. Mailing prices were $0.39 for each letter and $1.55 for the package. What is the total price Mr. Weber paid for mailing the letters and the package?

20. A scuba diver is taking pictures of fish in the Atlantic Ocean. Starting at sea level, he dives $23\frac{1}{4}$ feet into the ocean and takes a set of pictures. He then rises 12.5 feet to take a second set of pictures. Finally, he dives 15 feet deeper to take his final set of pictures.

Part A. Write an expression involving addition to find the total change in the diver's elevation.

Part B. What is the total change in his elevation after taking the three sets of pictures?

Use words, numbers, and/or pictures to show your work.