Math 7/7+ Quarter 1 Week 7 Spiral Review (NO WORK FOR EVERY PROBLEM = NO CREDIT)   Due: 9/15/2017

1.
Simplify: $- 7(x + 2) + 5(x + 2)$

2. What is the value of the expression below in simplest terms?

$$-\frac{4}{5}\left(-20\frac{1}{2}\right)$$

3. If the temperature is dropping 3° every hour during the night, what number shows the drop in temperature in 7 hours?

   A. -3°   **B.** -7°   **C.** -10°   **D.** -21°

4. Which expression is equivalent to $-3(x - y)?$

   A. $-3x - 3y$ **B.** $-3x + 3y$ **C.** $-3x - y$ **D.** $-3x + y$

5. Look at the division expression below. Which of these is true about the quotient of the expression $-514 \div 12$?

   A. It is a negative, rational number with a terminating decimal.

   B. It is a negative, irrational number with a terminating decimal.

   C. It is a negative, rational number with a nonterminating decimal.

   D. It is a negative, irrational number with a nonterminating decimal.

   Evaluate the following expressions

   6. -4.5 + -5.88   **7.** -4.51 + 6.12   **8.** - 45.2 – 32.1   **9.** -3.26 ● -2.9   **10.** $\frac{-5.46}{0.7}$

11.
What is the value of the expression $\left(-\frac{3}{5}\right) \div \left(\frac{3}{-5}\right)?$

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12.

What is the value of $\dfrac{^{-}2}{5} \cdot \dfrac{10}{14}$?

13.

What is the value of $6\dfrac{3}{5} \div ^{-}1\dfrac{1}{2}$?

14. Simplify $\dfrac{-8}{9}\left(27 + \dfrac{2}{3}x\right)$

15.

A carpenter wants to cut a 24-foot piece of wood into sections measuring $3\dfrac{1}{8}$ feet. How many complete sections can be cut?

16. The 2005 U.S. Girls Public High School swimming record in the 50 yard freestyle is 22.75 seconds. Kara's best time in this event is 24.38. What is the difference between Kara's best time and the 2005 record time?

17. The table below shows the scores for four mini-golf players during the past five games. Which player had a total score of exactly 1 during the past five games?

Mini-Golf Scores

Name	Game A	Game B	Game C	Game D	Game E
Marcus	−2	+4	−3	0	−1
Laura	+2	+3	−1	−1	−2
Shannon	−1	+2	0	0	−3
Vidya	−4	+1	+2	−1	+2

18. What is the value of the expression $(^{-}30) - (^{-}11) + (^{-}5)$?

19. Which situation can be solved using the expression $\dfrac{1}{4}(20 - 2)$?

- **A.** In a group of 20 people, 2 were children. Of the adults in this group, $\dfrac{3}{4}$ ordered chicken, and the rest ordered beef. How many of the adults in this group ordered chicken?

- **B.** In a class of 20 students, 2 students received red markers. Of the students remaining, $\dfrac{1}{4}$ of them received blue markers, and the rest received green markers. How many students in this class received green markers?

- **C.** In a class of 20 students, 2 students were absent. The remaining students went to the library, and $\dfrac{1}{4}$ of them checked out nonfiction books. How many of the students from this class that went to the library checked out nonfiction books?

- **D.** On a field trip to the movie theater, 20 tickets were purchased. Of the purchased tickets, 2 were adult tickets, and the rest were child tickets. If a child tickets costs $\dfrac{1}{4}$ of the cost of an adult ticket, what was the total cost of the child tickets?

20. Simplify: $-3(4 - 2g) - 6$

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