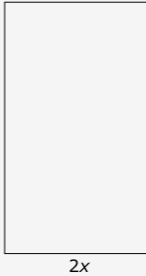


1. Which expression is equivalent to the following expression?  $6x - 4y$
- A.  $6(6x - 2y)$  B.  $6(x - 4y)$  C.  $2(3x - 4y)$  D.  $2(3x - 2y)$

$$\frac{4}{5}(10x - 25) + 25$$

2. Write the expression shown to the right in simplest terms.

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



Write an expression to represent the perimeter of the rectangle.

4. Simplify:  $12x - 20 - 5(x - 3)$ ?

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

7. Which of the following equations is equivalent to the equation  $10.50 + 8.25(h - 1) = 34$ ?

- A.  $8.25h + 2.25 = 34$  B.  $8.25h + 9.50 = 34$  C.  $18.75h - 1 = 34$  D.  $17.75h = 34$

8. Which expression is equivalent to  $\frac{-8}{9}\left(27 + \frac{2}{3}x\right)$ ?

- A.  $24 - \frac{16}{27}x$  B.  $\frac{648}{27} + \frac{16}{27}x$  C.  $6\left(-4 + \frac{3}{27}x\right)$  D.  $-8\left(3 + \frac{2}{27}x\right)$

The table below shows the scores for four mini-golf players during the past five games.

9. **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

Which player had a total score of exactly 0 during the past five games?

- A. Marcus B. Laura C. Shannon D. Vidya

10.  $a < 0 < b$ . Which sum must always equal 0?

- A.  $\frac{a}{b} + \frac{-a}{-b}$  B.  $\frac{a}{b} + \frac{a}{-b}$  C.  $\frac{a}{b} + \frac{b}{a}$  D.  $\frac{a}{b} + \frac{b}{-a}$

Name \_\_\_\_\_

Period \_\_\_\_\_

**Math 7/7+ Spiral 6 Review**

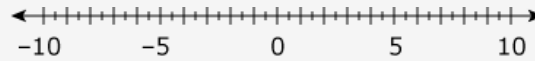
**NO WORK = NO CREDIT!**

**Due: 8/18/2017**

11. Mariana starts her hike up a mountain at an altitude of 1,792 feet and climbs to an altitude of 4,360 feet. She then hikes back down the mountain. Which equation could represent the change in altitude during her hike?

- A.  $4,360 \text{ ft} - 1,792 \text{ ft} = 2,568 \text{ ft}$
- B.  $1,792 \text{ ft} + 4,360 \text{ ft} = 6,152 \text{ ft}$
- C.  $1,792 \text{ ft} + 2,568 \text{ ft} - 2,568 \text{ ft} = 1,792 \text{ ft}$
- D.  $1,792 \text{ ft} + 2,568 \text{ ft} + 2,568 \text{ ft} = 6,928 \text{ ft}$

12. Tina chose two points on this number line.



If the distance between the two points is between 2 and 3 units, which pair of numbers could be the points Tina chose?

- A.  $-3\frac{1}{2}$  and 1
- B.  $-3\frac{1}{2}$  and -6
- C.  $3\frac{1}{2}$  and -4
- D.  $3\frac{1}{2}$  and 4

13.

$$-\frac{3}{2} + x = 0$$

Use the equation below to answer the question. What is the value of x in the given equation?

14. The offense of a high school football team gained 8 yards on first down and then lost 5 yards on second down. What expression represents the total amount of yards gained by the offense

- A.  $8 + (-5)$
- B.  $8 - (-5)$
- C.  $5 + (-8)$
- D.  $5 - (-8)$

15. The price of one share of a stock increased by \$3 on Monday and then decreased by \$4 on Tuesday. Which expression shows the change in the price of a share of the stock in two days?

- A.  $3 + (-4)$
- B.  $3 - (-4)$
- C.  $4 + (-3)$
- D.  $4 - (-3)$

16.

$$-\frac{1}{2} \left( 10 + \frac{1}{4} \right) ?$$

Which expression is equivalent to

- A.  $-5 - \frac{1}{4}$
- B.  $-5 - \frac{1}{8}$
- C.  $-5 + \frac{1}{8}$
- D.  $-5 + \frac{1}{4}$

17.

$$\frac{12}{-7} ?$$

Which expression is not equal to

- A.  $\frac{-12}{-7}$
- B.  $-\frac{12}{7}$
- C.  $\frac{-12}{7}$
- D.  $-1\frac{5}{7}$

18.

$$\frac{-15}{3} ?$$

Which situation can be represented by

- A. Iliana had \$15 that she and 3 friends shared.
- B. Suzette owed \$5 to each of her three friends.
- C. For 3 days in a row, the temperature was  $-15^\circ \text{ F}$ .
- D. Rogelio withdrew \$15 from his savings account 3 times this month.