TEST NAME: **Math 8 Jan 24**
TEST ID: **2825350**
GRADE: **08 - Eighth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. What value of x satisfies the equation $3(x + 7) = {}^{-}18$?

   A. ${}^{-}1$

   B. ${}^{-}4$

   C. ${}^{-}8$

   D. ${}^{-}13$

2. What is the value of x in the equation shown below?

$$5x + 7(2 + x) = 6 - 3(2 - x)$$

   A. $-\frac{14}{9}$

   B. $-\frac{14}{15}$

   C. $\frac{15}{14}$

   D. $\frac{14}{13}$

3. A cell phone company charges $120 for the phone, and then $35 a month for phone service. Another cell phone company charges $55 a month for phone service with a free phone. After how many months will the phone services cost the same?

   A. 4

   B. 5

   C. 6

   D. 7

4. What is the value of x in the equation $13x - 2(6x - 4) = 72$?

A. 64

B. 68

C. 76

D. 80

5. The equation $-2x + 3 = 6 - 2x$ has no solution. Which step would change the given equation so that it has infinitely many solutions?

A. adding 3 to the left side of the equation

B. adding 6 to the left side of the equation

C. subtracting 3 from the left side of the equation

D. subtracting 6 from the left side of the equation

6. **The equation compares the number of points that Steve and Pete each scored in a basketball game.**

$$3s + 5 = p$$

If s represents the number of points Steve made and p represents the number of points Pete made, which statement is true?

A. Pete scored 5 less than 3 times what Steve scored.

B. Steve scored 5 more than 3 times what Pete scored.

C. Pete scored 5 more than 3 times what Steve scored.

D. Steve scored 3 more than 5 times what Pete scored.

7. **What equation is represented by the values in this table?**

x	*y*
2	2
3	4
6	10
9	16

A. $y = \frac{1}{2}x - 2$

B. $y = \frac{1}{2}x + 2$

C. $y = 2x - 2$

D. $y = 2x + 2$

8. **Which equation BEST describes the relationship between the number of fish caught and the hours that were spent fishing?**

Fishing Log

X (Hours)	*Y* (Fish)
1	4
3	8
5	12
8	18
10	22
15	32

A. $y = x - 3$

B. $y = x + 3$

C. $y = 2x - 1$

D. $y = 2x + 2$

9. **Tracey works for a furniture store and earns a salary plus a commission based on sales. The equation below represents *y*, Tracey's earnings in a week when she sells *x* dollars' worth of furniture.**

$$y = 0.05x + 300$$

What happens to Tracey's weekly earnings as the sales increase by $800?

A. increase by $15.00

B. increase by $25.00

C. increase by $40.00

D. increase by $55.00

10. Which set of points lie on the same line?

A. (0, 2), (4, 4), (6, 8)

B. (2, 0), (4, 2), (6, 8)

C. (0, 2), (4, 4), (8, 12)

D. (2, 0), (4, 4), (8, 12)