TEST NAME: **Math 8 online Jan 31** TEST ID: **2842312** GRADE: **08 - Eighth Grade** SUBJECT: **Mathematics** TEST CATEGORY: **My Classroom**



01/31/19, Math 8 online Jan 31

Student: Class: Date:

- ^{1.} Which equation has an infinite number of solutions?
 - A. 7(1-4x) + 3x = 7
 - B. 5(2-4x) + 4x = 10
 - C. 8(2-2x)+16x=9
 - D. 6(3-2x)+12x=18
- 2. How many solutions does the equation 5(x-2) = 8+5x have?
 - A no solution
 - B. one solution
 - C. two solutions
 - D. infinitely many solutions
- 3. Which equation has no solution?
 - A -5+8x-9=3(x+3)
 - B. -2(6-3x) = -12+6x
 - C. 6-2(3-2x) = -4(3-x)
 - D. -(4x+9) = 2x 3(2x+3)

- 4. Which equation has no solution?
 - A 4x 9 = -9
 - B. 3x + 2 = 17
 - C. 2x + 4 = 2x + 6
 - $D. \quad x + 3x = 8x 4x$
- 5. How many solutions does the equation 2(x+4) = 2x+8 have?
 - A no solutions
 - B. one solution
 - C. two solutions
 - D. infinite solutions
- 6. Which of these equations does NOT have any solutions?
 - A 10 3x 1 = 7 + 3x + 2
 - B. 12 7x 10 = x 8x + 2
 - C. 13 4x + 2 = 3x 7x + 2
 - D. 15 2x 2 = 10x + 3x + 2
- ^{7.} A student solved an equation for the unknown value of n as 0 = 0. Which set represents all of the possible values of n?
 - A only zero can be the solution
 - B. only positive numbers can be the solution
 - ^{C.} only negative numbers can be the solution
 - D. any number can be the solution



- 8. Solve the equation 2(3x 4) = 8x 4 2x.
 - A no solution
 - B. infinitely many solutions
 - C. x = -1
 - D. x = 4
- 9. Which statement correctly describes the solution(s) of the equation below?

-2 + x - 3 = 2x + 5 - x

- ^A The equation has one solution, which is -5.
- B_{-} The equation has one solution, which is 5.
- ^{C.} The equation has infinitely many solutions.
- D. The equation has no solution.
- ^{10.} Which equation has infinitely many solutions?
 - A 8x = 8(x 1) + 1
 - B. 2x 5 = 2(x 5)
 - C. 22 6x = 2(3x 11)
 - D. 3(5x 4) 8x = 7x 12



^{11.} In which equation is y a linear function of x?

A
$$y = \frac{2}{x}$$

B. $y = \frac{x}{2}$
C. $y = x^2$
D. $y = \sqrt{2x}$

^{12.} In which equation is y a nonlinear function of x?

- A 2x = 3y 6B. y = 5C. $2x^2 = 3y - 6$
- D. x = 5

^{13.} Which equation is a nonlinear function?

- A y = -4x + 2
- B. y = 5
- C. $y = x^2$
- D. y = 5x
- ^{14.} Bacteria grow in colonies over time. Which table shows growth of bacteria colonies that can be modeled by a linear graph?

	Time (in hours)	1	2	3	4
	Number of Colonies	1	4	9	16
З.	Time (in hours)	1	2	3	4
	Number of Colonies	5	10	15	20
	Time (in hours)	1	2	3	4
	Number of Colonies	1	16	81	256
D.	Time (in hours)	1	2	3	4
	Number of Colonies	5	25	125	625



^{15.} Use this graph to answer the question.



Which set of points cannot be represented in the form y = mx + b?

- ^A *F*, *G*, *K*
- ^{B.} *F*, *H*, *K*
- ^{C.} *G*, *H*, *K*
- D. *H*, *K*, *L*

