TEST NAME: Math 8 online feb 07

TEST ID: **2859892**

GRADE: 08 - Eighth Grade - 09 - Ninth Grade

SUBJECT: Mathematics

TEST CATEGORY: My Classroom

02/07/19, Math 8 online feb 07

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| Student: | |
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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 3x-2x+4=2+x+2 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.} 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
- 5. Which equation has no solution?
 - A 3k-20=12
 - B. 8 + 15g = 15 + 8g
 - C. 12x + 6 = 3(4x + 2)
 - D. 9p + 7 = 6p 2 + 3p
- 6. An equation is given below.

$$6-2(4-x)+3x=5x-2$$

Based on the equation, which of the following is a valid statement?

- A The only value that satisfies the equation is x = 0.
- B. The only value that satisfies the equation is x = 3.
- C. There are no values of x that satisfy the equation.
- D. Any real number value of x satisfies the equation.
- 7. Which statement regarding the number of solutions for the linear equation shown below is true?

$$4(3x + 8) - 9 = 2(6x - 8) + 39$$

- A There are infinitely many solutions.
- B. There are exactly two solutions.
- C. There is exactly one solution.
- D. There is no solution.

- 8. Mary earns \$7.25 an hour. She can determine her salary, s, for the number of hours she works, h, by using the equation s = 7.25h. Which statement explains why s is a function of h?
 - A For every value of *h* there is only one value of *s*.
 - B. For some values of h there is more than one value of s.
 - C. For some values of s there is more than one value of h.
 - D. For every value of *s* there are two values of *h*.
- 9. In which equation is y a nonlinear function of x?

A
$$y = -3x + 6$$

B.
$$y = -5 + 0.4x$$

C.
$$y = 2x - 8$$

D.
$$y = x^2 - 6$$

- 10. Which table of values is a linear function?
 - A

| x | У |
|----|---|
| -1 | 1 |
| 0 | 0 |
| 1 | 1 |

B.

| x | y |
|---|---|
| 1 | 1 |
| 2 | 4 |
| 3 | 9 |

C.

| x | y |
|----|---|
| -1 | 1 |
| 2 | 4 |
| 5 | 7 |

D.

| X | y |
|---|---|
| 0 | 0 |
| 3 | 2 |
| 5 | 4 |

11. Which equation is a linear function?

A
$$y = x^3 + 4$$

B.
$$y = x^2 + 4$$

C.
$$y = x + 4$$

D.
$$y = -x^2 + 4$$

12. 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)