

TEST NAME: **NAMSIM11314A-REI.10**
TEST ID: **136071**
GRADE: **09**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. Which point lies on the graph of the equation $10y = 3x - 11$?

- A (2, -0.5)
- B (4, 1)
- C (6, 16.3)
- D (8, 23)

2.

Which point lies on the graph of $y = -\frac{2}{3}x + 8$?

- A (6, 4)
- B (0, 7)
- C (-2, 9)
- D (-4, 10)

3. Which point lies on the graph of $3x + 2y = x + 8$?

- A (5, -6)
- B (7, -3)
- C (8, -8)
- D (10, -26)

4. Which point is a solution to the equation $y = (-2)^x$?

A. $\left(-3, \frac{-1}{8}\right)$

B. $\left(-1, \frac{1}{2}\right)$

C. $(2, -4)$

D. $(3, -6)$

5. Which graph contains the point $(3, 8)$?

A. $y = 3x + 8$

B. $2y + x = 14$

C. $y = 3^x - 1$

D. $y = 2^x$

6. Which point is an **approximate** solution to the equation $y = 2(1.03)^x$?

A. $(2, 2)$

B. $(2, 2.06)$

C. $(2, 2.12)$

D. $(2, 4.12)$

7. Which coordinate is on the graph of $y = 4 - 2^x$?

A. $(-2, 8)$

B. $(0, 3)$

C. $(3, -2)$

D. $(4, -4)$

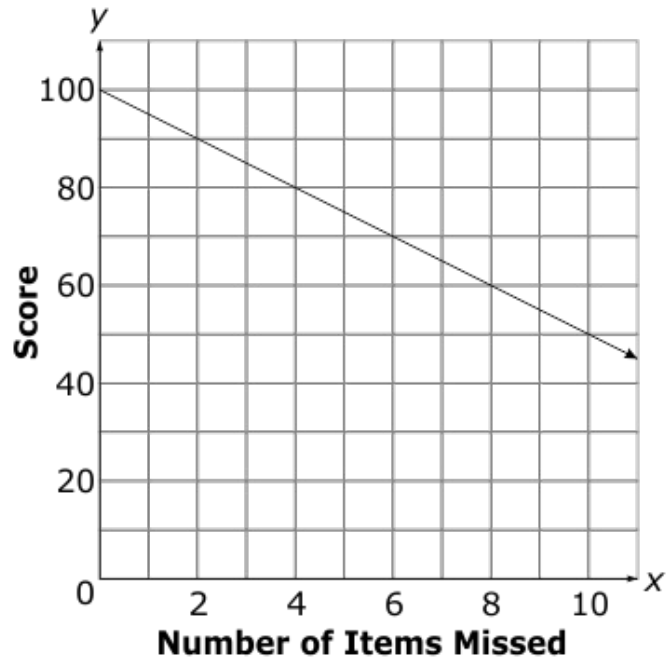
8. Which coordinate is on the graph of the equation $4x = 12 - 2y$?

- A. $(-3, 12)$
- B. $(-2, -2)$
- C. $(3, -12)$
- D. $(5, 4)$

9. Which point is **not** a solution to the equation $y = 0.25^x$?

- A. $(2, 0.5)$
- B. $(0, 1)$
- C. $(-1, 4)$
- D. $(-2, 16)$

10. The graph below shows the number of items missed on a test and the corresponding score.



Which items missed and score combination is **not** correct?

- A. (1, 95)
 - B. (5, 75)
 - C. (7, 60)
 - D. (14, 30)
11. Which point lies on the graph of $y = -8\left(\frac{1}{2}\right)^x$?

- A. (-2, -30)
- B. (0, 0)
- C. (1, -3)
- D. (3, -1)

12. Which point lies on the graph of $3x - 4y = 12$?
- A. $(-8, 10)$
 - B. $(-4, -6)$
 - C. $(0, 3)$
 - D. $(1, -3)$
13. Which point is an **approximate** solution to the equation $y = 5(1.1)^x$?
- A. $(3, 15)$
 - B. $(2, 11)$
 - C. $(-1, 4.5)$
 - D. $(-2, 2.3)$
14. Which point lies on the graph of $\frac{1}{2}x + \frac{3}{4}y = \frac{4}{5}x - \frac{9}{4}$?
- A. $(3, 1)$
 - B. $(5, -1)$
 - C. $(8, 2)$
 - D. $(10, -11)$
15. Which choice is an ordered pair that, for every real number k , represents a point that lies on the graph of $30x - 5y = 10$?
- A. $(k + 2, 6k + 10)$
 - B. $(k + 4, 6k + 20)$
 - C. $(3k, 18k + 2)$
 - D. $(5k, 30k + 2)$

16. Which point **approximately** lies on the graph of the exponential equation with an initial value of 15 and a growth rate of 2.75%?
- A (1, 0.4125)
 - B (3, 31.09)
 - C (5, 50.5)
 - D (14, 21.93)
17. Which equation has solutions at (4, 9) and (2, -3)?
- A $y = 3^x - 12$
 - B $y = 3^{(x - 1)} - 18$
 - C $y = 2^x - 7$
 - D $y = 2^{(x + 1)} - 11$
18. Which point is a solution to the equation $y = 4(5)^x$?
- A (-2, 0.16)
 - B (-1, 1.25)
 - C (0, 0)
 - D (2, 40)
19. Which point is **not** a solution to the equation $-2x - 4y = 16$?
- A (4, -2)
 - B (1, -4.5)
 - C (-2, -3)
 - D (-5, -1.5)

20. Which point lies on the graph of $y = 3x - 15$?

- A. $(-3, -21)$
- B. $(-1, -15)$
- C. $(14, 27)$
- D. $(16, 30)$

21. Which point is a solution to the equation $\frac{2}{3}x - \frac{1}{2}y = 4$?

- A. $(-3, -8)$
- B. $(0, 8)$
- C. $(2, -5)$
- D. $(6, 0)$

22. Which coordinate is **not** on the graph of the equation $\frac{2}{5}x - \frac{1}{5}y = 3$?

- A. $(-5, -25)$
- B. $(-2, -19)$
- C. $(3, -11)$
- D. $(6, -3)$

23. Which point is a solution to the equation $y = -3^x$?

- A. $(-2, 6)$
- B. $(0, 1)$
- C. $(2, -9)$
- D. $(4, 81)$

24. The points $(3, -2)$ and $(-6, -5)$ form a line. Which point lies on the same line?
- A $(12, 6)$
 - B $(8, 3)$
 - C $(-1, -1)$
 - D $(-3, -4)$
25. Which point is a solution to the equation $3y - 2x = 18$?
- A $(6, 0)$
 - B $(3, 8)$
 - C $(-3, 8)$
 - D $(-6, 10)$
26. Which point is **not** a solution to the equation $-2y + x = 8$?
- A $(5, -1.5)$
 - B $(2, -3)$
 - C $(-1, -4.5)$
 - D $(-3, 2)$
27. Which graph does **not** contain the point $(2, 5)$?
- A $y = 3^x - 4$
 - B $x + 13 = 3y$
 - C $y = 2(3)^x - 7$
 - D $x - 4y = -18$

28. Which point lies on the graph of $y = 6(2)^x$?

- A. (3, 36)
- B. (1, 8)
- C. (0, 12)
- D. (-1, 3)

29. Which coordinate is on the graph of the equation $y = \left(\frac{1}{8}\right)^x$?

- A. $\left(-2, \frac{-1}{4}\right)$
- B. $\left(-1, \frac{-1}{8}\right)$
- C. $\left(0, \frac{1}{8}\right)$
- D. $\left(2, \frac{1}{64}\right)$