



Name: _____

8TH GRADE 2019 SUMMER VACATION MATHEMATICS PACKET (ENGLISH VERSION)

Due September 5, 2019

Directions:

Answer all questions. Show work in the box. Return packet to you math teacher on September 5,
2019

Principal Ysidro Abreu, NS319
[Email address]

NAME: _____ CLASS: _____

1. Simplify the expression below.

$$3x + 9x$$

Show your work.

2. Simplify this expression.

$$3x + 2x + 3y - y$$

Show your work.

3. Simplify this expression.

$$8x - 5x + 3 + 2y - y - 1$$

Show your work.

NAME: _____ CLASS: _____

4. Simplify the expression below.

$$12ab + 8ab + 5ab$$

Show your work.

5. Simplify the expression below.

$$12xy - 15x + 6xy$$

Show your work.

6. Simplify the expression below.

$$6(7 + 3c)$$

Show your work.

NAME: _____ CLASS: _____

7. Simplify the expression below.

$$2b - 4(2b + 5)$$

Show your work.

8. Simplify the expression below.

$$10(3 + 8k) + 9(k + 3)$$

Show your work.

9. Simplify the expression below.

$$9(m + 8) + 11(3m + 4)$$

Show your work.

NAME: _____ CLASS: _____

10. Omar wants to solve the equation $3x - 2 = 10$. Which steps could Omar follow to find the solution?

- A Add 2 to both sides. Then divide both sides by 3.
- B Divide both sides by 3. Then add 2 to both sides.
- C Subtract 2 from both sides. Then divide both sides by 3.
- D Multiply both sides by 3. Then subtract 2 from both sides.

11. Find the value of a in the equation below.

$$3a + 2 = a - 6$$

Show your work.

12. Solve the equation below for x .

$$20x + 5x - 20 = 21x + 4$$

Show your work.

NAME: _____ CLASS: _____

13. Solve for x in the equation below.

$$8(2x - 3) = -16$$

Show your work.

14. Solve for x in the equation below.

$$2(3x - 4) - 7 = 3x + 1 + x$$

Show your work.

15. Michael enters a 120-mile bicycle race. He bikes 24 miles an hour. What is Michael's finishing time, in hours, for the race?

$$d = rt$$

Show your work.