

Name: \_\_\_\_\_ Grade/Section: \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / 2022

## Quiz

**7.EE.A.2** Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

**7.EE.A.1** Use properties of operations to generate equivalent expressions. 1. Apply properties of operations to add, subtract, factor, and expand linear expressions with rational coefficients

**Choose the correct answer.**

1. What is the best step when you use the distributive property to evaluate  $3 \times 19$ ?

- a.  $3(20 - 1)$       b.  $3(19)$       c.  $3(19+1)$       d.  $(2+1)(20)$

2. Simplify  $4(-3x + 1)$

- a.  $-7x - 4$       b.  $-12x + 4$       c.  $-12x - 4$       d.  $4x + 1$

3. Use distributive property to simplify  $-3(2 + b)$

- a.  $-6 + 3b$       b.  $6 + 3b$       c.  $-3b - 6$       d.  $-32 + b$

4. Add.  $(3x + 2a - 1) + (2x + 3a + 6)$

- a.  $5x + 5a - 5$       b.  $x + a + 5$       c.  $5a + 5$       d.  $5x + 5a + 5$

5. Subtract.  $(4x - 9) - (2x + 1)$ .

- a.  $2x - 10$       b.  $4x + 10$       c.  $2x + 10$       d.  $2x - 8$

6. What is the sum of  $(3x - 1) + (2x + 1) + 5x$ ?

- a.  $5x$       b.  $10x$       c.  $10x + 2$       d.  $10x - 2$

7. Simplify  $4(x - 1) + (-4x + 4)$

- a.  $8x - 8$       b.  $8x + 4$       c.  $0$       d.  $8$

8. Simplify  $3(2x - 4) - 2(3x - 6)$ .

- a.  $6x$       b.  $12$       c.  $6x + 12$       d.  $0$

9. Find the missing number.  $(3x - \underline{\hspace{2cm}}) + (2x - 9) = 5x - 20$

- a.  $11$       b.  $9$       c.  $2$       d.  $0$

10. Find the missing number.  $(\underline{\hspace{2cm}} + 5) - (7x + 9) = 3x - 4$

- a.  $2x$       b.  $10x$       c.  $10$       d.  $x$