

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 3×19 ?

- 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. $(3x - \underline{\hspace{1cm}}) + (2x - 9) = 5x - 20$

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

10. Find the missing number. $(\underline{\hspace{1cm}} + 5) - (7x + 9) = 3x - 4$

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