



Algebra 1

Topic: Solving Multi-Step Equations

Instructions

Solve the equation. Check your solution.

Practice Problems

1. $2x + 3 = 11$

2. $3x - 4 = 2x + 1$

3. $5x + 2 = 17$

4. $4x - 7 = 9$

5. $2x + 5x = 21$

6. $\frac{3x}{2} - 2 = 4$

7. $3x + 5 = 2x + 8$

8. $6x - 3x + 4 = 10$

9. $7x - 3 = 2x + 12$

10. $\frac{x}{3} + 5 = 9$

Multiple Choice Questions

1. Solve: $4x + 5 = 17$. What is the value of x ?

A. 3

C. 5

B. 4

D. 6

2. Solve: $3x - 7 = 2x + 4$. What is the value of x ?

A. 11

C. 7

B. 10

D. 9

3. Solve: $5x + 8 = 3x + 20$. What is the value of x ?

A. 6

C. 5

B. 4

D. 3

4. Solve: $\frac{2x}{3} + 4 = 10$. What is the value of x ?

A. 9

C. 8

B. 12

D. 6

Challenge Problems

1. $2(3x - 5) = 10$

2. $4x - (2x + 3) = 9$

3. $\frac{5x}{2} - 3 = 7$

4. $6(x - 2) = 24$

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

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