

Solving Linear Equations – Practice Worksheet

Instructions: Solve each equation step-by-step. Show your work in the space provided.

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|----------------------------|-------------------------------------|
| 1. $x + 7 = 12$ | 11. $2(x - 4) = 10$ |
| 2. $3x = 21$ | 12. $x - \frac{3}{4} = \frac{1}{4}$ |
| 3. $x - 5 = 9$ | 13. $-5x = 20$ |
| 4. $\frac{x}{4} = 6$ | 14. $4x + 2 = 2x + 10$ |
| 5. $5x + 2 = 17$ | 15. $\frac{3}{2}x = 12$ |
| 6. $2x - 3 = 11$ | 16. $2x + 7 = x - 1$ |
| 7. $8 = 2x + 4$ | 17. $\frac{2}{3}x + 4 = 8$ |
| 8. $4x - 7 = 3x + 1$ | 18. $-3(x - 2) = 9$ |
| 9. $3(x + 2) = 15$ | 19. $5x - (2x + 3) = 6$ |
| 10. $\frac{1}{2}x + 5 = 9$ | 20. $\frac{x+2}{3} = 4$ |

Tips for Solving Linear Equations:

- Always do the same thing to both sides of the equation.
- Keep your equation balanced.
- Combine like terms before solving, if needed.
- Check your answer by plugging it back into the original equation.
- Watch out for negative numbers and fractions.