Solving Equations

Partner Play

Directions: Partner A solves only the equations in column A. Partner B solves only the equations in column B. After solving each equation, compare your answers. Even though the equations are different, the solutions will be the same. If you agree on the solution, write it in the solution box. If you disagree on the solution, work together to find the mistakes. Show all work, including the check, on the answer document.

Column A (Partner A)	Column B (Partner B)	Solution
❶ $\frac{x}{3} = 4$	❶ $\frac{x}{2} = 6$	$x =$
❷ $-x + 4 = -6$	❷ $-x + 7 = -3$	$x =$
❸ $20 = 9 - 3x - 10$	❸ $16 = 2 - 4x - 14$	$x =$
❹ $8(1 + 5x) = 208$	❹ $8(5 + 2x) = 120$	$x =$
❺ $-8(x + 7) = -120$	❺ $-7(x + 8) = -112$	$x =$
❻ $305 = 8(6x + 3) - 7$	❻ $161 = 6(4x + 3) - 1$	$x =$
❼ $x - 8 = -8(6x + 1)$	❼ $x - 6 = -6(7x + 1)$	$x =$
❽ $6 - 7(3x + 7) = 125$	❽ $2 - 5(5x + 6) = 172$	$x =$
❾ $\frac{x + 11}{3} = 4$	❾ $\frac{x + 14}{3} = 5$	$x =$
❿ $\frac{x - 12}{2} + 1 = -3$	❿ $\frac{x - 14}{2} + 3 = -2$	$x =$

Solving Equations Key

Partner Play

Directions: Partner A solves only the equations in column A. Partner B solves only the equations in column B. After solving each equation, compare your answers. Even though the equations are different, the solutions will be the same. If you agree on the solution, write it in the solution box. If you disagree on the solution, work together to find the mistakes. Show all work, including the check, on the answer document.

Column A (Partner A)	Column B (Partner B)	Solution
❶ $\frac{x}{3} = 4$	❶ $\frac{x}{2} = 6$	$x = 12$
❷ $-x + 4 = -6$	❷ $-x + 7 = -3$	$x = 10$
❸ $20 = 9 - 3x - 10$	❸ $16 = 2 - 4x - 14$	$x = -7$
❹ $8(1 + 5x) = 208$	❹ $8(5 + 2x) = 120$	$x = 5$
❺ $-8(x + 7) = -120$	❺ $-7(x + 8) = -112$	$x = 8$
❻ $305 = 8(6x + 3) - 7$	❻ $161 = 6(4x + 3) - 1$	$x = 6$
❼ $x - 8 = -8(6x + 1)$	❼ $x - 6 = -6(7x + 1)$	$x = 0$
❽ $6 - 7(3x + 7) = 125$	❽ $2 - 5(5x + 6) = 172$	$x = -8$
❾ $\frac{x + 11}{3} = 4$	❾ $\frac{x + 14}{3} = 5$	$x = 1$
❿ $\frac{x - 12}{2} + 1 = -3$	❿ $\frac{x - 14}{2} + 3 = -2$	$x = 4$

Solving Equations Answer Document

Partner A:_____

Solve the Equation	Check Your Answer	Solution
❶ $\frac{x}{3} = 4$		$x =$
❷ $-x + 4 = -6$		$x =$
❸ $20 = 9 - 3x - 10$		$x =$
❹ $8(1 + 5x) = 208$		$x =$
❺ $-8(x + 7) = -120$		$x =$

❻ $305 = 8(6x + 3) - 7$		$x =$
❼ $x - 8 = -8(6x + 1)$		$x =$
❽ $6 - 7(3x + 7) = 125$		$x =$
❾ $\frac{x + 11}{3} = 4$		$x =$
❿ $\frac{x - 12}{2} + 1 = -3$		$x =$

Solving Equations Answer Document

Partner B:_____

Solve the Equation	Check Your Answer	Solution
❶ $\frac{x}{2} = 6$		$x =$
❷ $-x + 7 = -3$		$x =$
❸ $16 = 2 - 4x - 14$		$x =$
❹ $8(5 + 2x) = 120$		$x =$
❺ $-7(x + 8) = -112$		$x =$

❻ $161 = 6(4x + 3) - 1$		$x =$
❼ $x - 6 = -6(7x + 1)$		$x =$
❽ $2 - 5(5x + 6) = 172$		$x =$
❾ $\frac{x + 14}{3} = 5$		$x =$
❿ $\frac{x - 14}{2} + 3 = -2$		$x =$