

# 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 a separate sheet of paper.

Column A (Partner A)	Column B (Partner B)	Solution
<p>①</p> $10 = x + 7$ $\begin{array}{r} -7 \\ \hline x = 3 \end{array}$	<p>①</p> $1 + x = 4$ $\begin{array}{r} -1 \\ \hline x = 3 \end{array}$	$x = 3$
<p>②</p> $4x = -16$ $\begin{array}{r} 4 \\ \hline x = -4 \end{array}$	<p>②</p> $-8 = 2x$ $\begin{array}{r} -8 \\ \hline 2 \\ \hline x = -4 \end{array}$	$x = -4$
<p>③</p> $2x + 6 = 10$ $\begin{array}{r} -6 \\ \hline 2x = 4 \\ \hline x = 2 \end{array}$	<p>③</p> $4x + 2 = 10$ $\begin{array}{r} -2 \\ \hline 4x = 8 \\ \hline x = 2 \end{array}$	$x = 2$
<p>④</p> $-3x + 4 = -5$ $\begin{array}{r} -4 \\ \hline -3x = -9 \\ \hline x = 3 \end{array}$	<p>④</p> $-5x + 8 = -7$ $\begin{array}{r} -8 \\ \hline -5x = -15 \\ \hline x = 3 \end{array}$	$x = 3$
<p>⑤</p> $x - (-4) = 10$ $\begin{array}{r} -4 \\ \hline x + 4 = 10 \\ \hline x = 6 \end{array}$	<p>⑤</p> $x - (-8) = 14$ $\begin{array}{r} -8 \\ \hline x + 8 = 14 \\ \hline x = 6 \end{array}$	$x = 6$
<p>⑥</p> $-5 = 11 + 2x$ $\begin{array}{r} -11 \\ \hline -16 = 2x \\ \hline x = -8 \end{array}$	<p>⑥</p> $-13 = 11 + 3x$ $\begin{array}{r} -11 \\ \hline -24 = 3x \\ \hline x = -8 \end{array}$	$x = -8$
<p>⑦</p> $-x + 4 = -6$ $\begin{array}{r} -4 \\ \hline -x = -10 \\ \hline x = 10 \end{array}$	<p>⑦</p> $-x + 7 = -3$ $\begin{array}{r} -7 \\ \hline -x = -10 \\ \hline x = 10 \end{array}$	$x = 10$
<p>⑧</p> $-5x = -25$ $\begin{array}{r} -5 \\ \hline x = 5 \end{array}$	<p>⑧</p> $-7x = -35$ $\begin{array}{r} -7 \\ \hline x = 5 \end{array}$	$x = 5$
<p>⑨</p> $20 = -3x - 1$ $\begin{array}{r} +1 \\ \hline 21 = -3x \\ \hline x = -7 \end{array}$	<p>⑨</p> $16 = -4x - 12$ $\begin{array}{r} +12 \\ \hline 28 = -4x \\ \hline x = -7 \end{array}$	$x = -7$
<p>⑩</p> $5x + (-4) = 16$ $5x - 4 = 16$ $\begin{array}{r} +4 \\ \hline 5x = 20 \\ \hline x = 4 \end{array}$	<p>⑩</p> $3x + (-5) = 7$ $3x - 5 = 7$ $\begin{array}{r} +5 \\ \hline 3x = 12 \\ \hline x = 4 \end{array}$	$x = 4$