$\qquad$

## Solving Equations With Parentheses

When solving an equation with parentheses, you can use inverse operations to isolate the variable. Let's try it! Solve $3(x+5)=21$ for $x$.

$$
\begin{array}{rlrl}
\frac{3(x+5)}{3} & =\frac{21}{3} & & \begin{array}{l}
\text { Here, the expression } x+5 \text { is multiplied by } 3 . \\
\text { To get } x+5 \text { alone, undo the multiplication. } \\
\text { Divide both sides of the equation by } 3 .
\end{array} \\
x+5 & =7 & & \text { Then, simplify. } \\
x+5-5 & =7-5 & \begin{array}{l}
\text { Next, to get } x \text { alone, subtract } 5 \text { from } \\
\text { both sides of the equation. }
\end{array} \\
x & =2 & & \text { Then, simplify to solve. }
\end{array}
$$

Solve each equation by first dividing to undo the multiplication.


