## Possible Solutions

Write an equivalent expression for the one shown below.

$$
2 x+2(x+1)
$$

- To solve this problem, students need to simply begin simplifying the expression, reducing it down to one step as an equivalent expression (the step before getting a solution).
- This is done by following a series of steps.

1. First, students would need to get rid of the parenthesis in this expression using distribution. To do so, they must
a. Multiply 2 by $x$ which gives them $2 x$
b. Multiply 2 by +1 which gives them +2
c. This results in $2 x+2$ in place of $2(x+1)$
2. Next, students return to the beginning of the expression and write the new form.
a. $2 x+2 x+2$
3. Then, they combine like terms, in this case, $2 x$
a. They combine $2 x+2 x$ to get $4 x$.
4. The result, or equivalent expression would be $4 x+2$.
