## **Possible Solutions**

Write an equivalent expression for the one shown below.

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

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