## Possible Solutions

Write an equivalent expression for $3(22+54-7)$.

- In order to solve this problem and generate equivalent expressions, the student must understand the distributive property of multiplication.


## Possible Solution 1

- First, students may distribute the 3 with each number inside the parenthesis.

$$
3 \times 22,3 \times 54 \text {, and } 3 \times-7
$$

- This would result in the following equivalent expression.

$$
(3 \times 22)+(3 \times 54)+(3 x-7)
$$

## Possible Solution 2

- First, students may distribute the 3 with each number in parenthesis as above.

$$
3 \times 22,3 \times 54,3 \times-7
$$

- This would result in the following expression.

$$
(3 \times 22)+(3 \times 54)+(3 \times-7)
$$

- Students can choose to go one step further to generate an equivalent expression, and solve the equations inside parenthesis.

$$
66+162-21
$$

## Possible Solution 3

- Students may choose to start inside of the parenthesis, using the order of operations.

$$
22+54-7=69
$$

- This would result in the following equivalent expression, $3 \times 69$.

