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 x 22, 3 x 54, and 3 x -7

• This would result in the following equivalent expression.

Possible Solution 2

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

3 x 22, 3 x 54, 3 x -7

• This would result in the following expression.

(3 x 22) + (3 x 54) + (3 x -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.

• This would result in the following equivalent expression, 3 x 69.