

Algebraic Reasoning: Patterns and Functions

Expected Performance 1.3a(3)

Health Club – OE

Two local health and fitness centers, Fitness First and Healthy Life are in your neighborhood. The copies of their ads are shown below:

Fitness First
\$49.00/month for the first family member•
plus•
\$29.00/month each additional family member•

Healthy Life
\$65.00/month for the first family member•
plus•
\$21.00/month each additional family member•

- Write an equation in your answer booklet that shows C , the total monthly charges for a family with N members at Fitness First.
- Write an equation in your answer booklet that shows C , the total monthly charges for a family with N members at Healthy Life.
- Find the number of family members for which the charges for the two health and fitness centers are equal.

The grid is provided in case you would like to use a graphical solution for this problem.

