## Surprise Birthday Party

Sue decided to give Maria a surprise birthday party. She ordered a large ice cream cake for the party, but is not sure how many people to invite.
A. How will the number of people attending the party affect the portion of cake that each person gets?
B. Is there a relationship between the number of people attending the party and the portion of the cake that each person gets? Explain your answer and illustrate with pictures, a table, and a graph.
C. What is the constant of proportionality and what does it represent in the context of this problem?

