***Telephone Problem***

 ***![C:\Users\Julia\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\3FW9C1VD\MC900389818[1].wmf]()***

The 3rd graders at Jefferson Elementary have raised money to visit Williamsburg. Thirteen friends are planning to go. They are very excited about the trip and worried that they might forget something. On the night before the trip they call each other to double check what they need to bring. Each friend talks to every other friend once. How many phone calls will be made? How many calls would be made if 14 friends were planning to go? 15 friends?

How did you get your answer? Try to show your solution on paper.

Organize your data in a table. Do you see a pattern in the numbers?

How many phone calls would be made if 100 friends were planning to go?

How would you describe the relationship between the number of friends and the total number of phone calls?