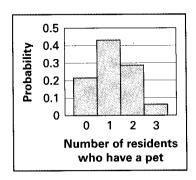
For the following problems create a probability distribution and calculate the expected value.

1.



2. If you have a 3/9 probability of gaining \$300, a 4/9 probability of losing \$100, and a 2/9 probability of breaking even. What is your expected value?

3. You are wondering what the weather is going to be like this weekend so your teacher provides you with a probability distribution for you to discover the answer. There is an 80% chance it will be sunny, 10% chance of rain, 9.99995% chance of snow and 0.00005% chance of volcanic ash.

4. In a group of 10 batteries, 3 are dead. You choose 2 batteries at random. Create a probability model for the number of good batteries you get. What is the expected number of good ones you get?

