1. A mail order company tracks the number of returns it receives each day. Information for the last 50 days shows

|  |  |
| --- | --- |
| Number of returns | Number of days |
| 0 - 99 | 6 |
| 100 - 199 | 20 |
| 200 - 299 | 15 |
| 300 or more | 9 |

 a. How many sample points are there?

 b. List and assign probabilities to sample points.

 c. What procedure was used to assign these probabilities?

2. There are two more assignments in a class before its end, and if you get an A on at least one of them, you will get an A for the semester. Your subjective assessment of your performance is

|  |  |
| --- | --- |
| Event | Probability |
| A on paper and A on exam | .25 |
| A on paper only | .10 |
| A on exam only | .30 |
| A on neither | .35 |

 a. What is the probability of getting an A on the paper?

 b. What is the probability of getting an A on the exam?

 c. What is the probability of getting an A in the course?

3. Fold back this decision tree. Clearly state the decision strategy you determine.

