

4. The number of flowers to two types and two colors being grown in a greenhouse are given in the following table. **2 points each**

	White	Red
Rose	82	122
Carnation	75	89

If one flower is randomly chosen, find the probability that the flower

- a) was red
- b) was a rose
- c) was a red rose
- d) was red or a rose
- e) was red given that it was a rose
- f) was a rose given that it was red

If two flowers are randomly chosen, what is the probability that both are carnations.

Are the events “being a rose” and “being a carnation” mutually exclusive events? Why or why not?