1. The most common form of colorblindness is a sex-linked hereditary condition caused by a defect on the X chromosome. Thus, it is more common in males than females; 7% of males are colorblind but only 0.5% of females are colorblind. In a certain population, 50% are male and 50% are female. Find the percentage of colorblind persons that are male.
2. You must decide whether to study hard for your Stats final. The professor tells you that, in the past, 75% of the A’s belong to people who study hard, and 20% of the non-as belong to people who study hard. Furthermore, experience shows that about 40% of people get A’s on the final.
   1. What is the probability of getting an A, given that you study hard?
   2. What is the probability of getting an A, given that you do not study hard?