

4. A survey shows that 71% of adults in the U.S. under the age of 35 consider themselves to be liberal, politically. An adult in the U.S. is randomly selected to give their political opinions on a talk show. Given that this person is under 35 years of age, which of the following is a reasonable opinion:
- (a) It is likely that the person considers himself or herself to be politically liberal, given that most (71% of) U.S. adults in his or her age group do.
 - (b) We do not have enough information to determine how likely it is that the person considers himself or herself to be politically liberal.
5. The Pew Research Foundation conducted a survey of parents and their teens. They found 80% of the Evangelical Protestant parents' teenage children share the same religious beliefs (i.e. their teens also identify as Evangelical Protestant). You have just met a Christian couple who shared with you how happy they are that their teenage child has embraced their (the parents') faith. Which of the following is reasonable?
- (a) It is likely that the couple is Evangelical Protestant, since most (80% of) parents whose teens have the same faith as themselves are Evangelical Protestant.
 - (b) We do not have enough information to determine how likely it is that the couple is Evangelical Protestant. We would like to know what percentage of parents (of teens) have teens who identify with the same religious group.