Determine whether the binomial distribution is an appropriate model for the probability distribution of the given experiment. Support each statement using the characteristics of a binomial distribution.

1. Toss a fair die five times and record whether the up face of the die shows four dots.
a.
b.
c.
d.
2. Randomly draw 10 cards without replacement from a well-shuffled deck of 52 playing cards and observe whether each card is a diamond.
a.
b.
C.
d.
3. Randomly interview 200 students about whether they favor a campus issue and count the number of yes responses. Assume that none of the students interviewed refuses to answer the question.
a.
b.
c.
d.
4. Test 100 male subjects who were given an experimental drug to prevent a certain flu strain and count the number of subjects who show symptoms consistent with that particular flu strain.
a.
b.
c.
d.
