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dbinom(7:12, size = 12, prob = 0.4)
dbinom(8:12, size = 12, prob = 0.4)
pbinom(7, size = 12, prob = 0.4)
pbinom(8, size = 12, prob = 0.4)
1-pbinom(7, size = 12, prob = 0.4)
1-pbinom(8, size = 12, prob = 0.4)
```

4. (4) In the exercises, we assumed that all 21 events were independent. In the context of the study, give a reason why this assumption might not be appropriate. Use 20 words or fewer.
5. (2) When we fail to reject a null hypothesis that  $\theta = \theta_0$ , informally, we are saying that  $\theta_0$  is a \_\_\_\_\_ value of the parameter. Fill in the blank.
6. (2) When we use a hypothesis test to construct a confidence interval, the confidence interval contains all values  $\theta_0$  for which we (reject) or (fail to reject) the null hypothesis that  $\theta = \theta_0$ . Circle the correct answer.