

Free Response

19.) Decide whether the situation described is a binomial setting, a geometric setting or neither.

a.) Suppose you repeatedly draw cards out of a deck without replacement in an attempt to draw an ace.

neither

b.) You roll a die 20 times and count the number of 1's you rolled.

Binomial $(n=20, p=\frac{1}{6})$

c.) You attempt to find a parking space at the mall on Christmas eve, so you drive up the parking lot aisle until you find an empty parking space.

Neither - probability of success changes the farther you are from the mall

d.) In an advertisement, you see that 24% of Americans use Crest toothpaste. So you take a random sample of 50 Americans and count the number who uses Crest toothpaste.

Binomial

e.) You flip a coin until you get a tails.

Geometric

f.) 8% of the apples at the supermarket have a bruise on it. You randomly choose apples from the fruit bin at Stew Leonard's until you find one with a bruise.

Geometric

g.) You randomly choose 20 apples from the fruit bin and count the number of apples without a bruise.

Binomial

20.) 63% of the freshmen who enroll at Penn State University will graduate in 4 years. Suppose you are a freshman at Penn State and there are 16 freshmen who live on your dorm floor.

a.) What is the probability that exactly half of the freshman on your floor will graduate in 4 years?

Binomial $n=16, p=.63$ $P(X=8) \rightarrow .1122$ binompdf(16, .63, 8)

b.) What is the probability that more than 10 freshmen on your floor will graduate in 4 years?

$n=16, p=.63$ $P(X > 10) = 1 - P(X \leq 10) = 1 - \text{binomcdf}(16, .63, 10) = .4230$

c.) How many freshmen on your floor would you expect to graduate in 4 years?

Binomial $E(X) = np = 16(.63) = 10.08$

d.) What is the standard deviation of this distribution?

$SD(X) = \sqrt{npq} = \sqrt{16(.63)(.37)} = 1.93$

e.) What is the probability that the number of freshmen who graduate will be within 1 standard deviation of the mean?

$P(8.15 < X < 12.01)$ Binomial, so random...
 $P(9 \leq X \leq 12)$
 $= \text{binomcdf}(16, .63, 12) - \text{binomcdf}(16, .63, 8) = .6934$

Ap Statistics Unit 5 Test Key

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