What is the prob we get exactly 3 questions right
if we randomly gress?

$$(1/1/XX: (\frac{1}{4})(\frac{1}{4})(\frac{1}{4})(\frac{3}{4})(\frac{3}{4}) = (\frac{1}{4})^3(\frac{3}{4})^2$$

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Note: The championship example from is not a Bernoulli experiment, (could play 2 or 3 games) Example: a) Coin flipped 8 times, count the number of hands Is Bernoulli b) 8 cards drawn from deck (vithout replacement), count number of speales Not Bernoulli (triels not independent) C) 8 cards drawn from deck (vith replacement), count number of speales Is Bernoulli

Example: Roll die 3 times. What is prob of getting two

$$5's$$
?
Bernoulli experiment?
 $P(Treo 5's in 3 rolls) = C((3,2)(t)^2(t)^2)$
 $Velage to reader
 $5's$ and new-5's. Cut two 5's
 $= 3(t_s)(t_b) = 0.0(694)$$

Example: Roll die 3 times, count number of 5's.
Find binomial distribution for this experiment

$$\frac{\chi}{P(\chi)}$$
0 $C(3,0)(\frac{\pi}{2})^3 = 0.5787$
1 $C(3,1)(\frac{\pi}{2})(\frac{\pi}{2})^2 = 0.3472$
2 $C(3,2)(\frac{\pi}{2})^2(\frac{\pi}{2}) = 0.0694$
3 $C(3,3)(\frac{\pi}{2})^3 = 0.0046$

