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AM Geometric

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Binomial and

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Name _____ 1. A

manufacturing process

produces, on the

average, 3% defective

items. The company

ships 12 items in each

box and wishes to

guarantee no more

than one defective

item per box. What is

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the probability that the
box will fail to satisfy
the guarantee? 2.

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Binomial random

variable Binomial

random variable is a

specific type of

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Binomial And

Geometric Distributions
discrete random variable. It counts how often a particular event occurs in a fixed number of trials. For variable to be binomial it has to satisfy following conditions:
We have a fixed number of trials; On each trial, the event of interest either occurs or does not occur.

Binomial, Bernoulli, geometric and ... - Free Math

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**Binomial And
Geometric
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Worksheets**

AP Statistics – Ch 8 –

The Binomial and
Geometric Distributions

Ch 8.1 – The Binomial
Distributions . The

Binomial Setting A
situation where these
four conditions are
satisfied is called a
binomial setting. 1.

Each observation falls
into one of just two
categories, which we
call “success” or
“failure”. 2.

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**AP Statistics - Ch 8 -
The Binomial and
Geometric ...**

This video explains the basics of the geometric and binomial models with a few basic examples. If you are interested in practice AP questions to help prepare you for the AP test in May please ...

**AP Statistics:
Binomial and
Geometric Models**

The binomial
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Distributions
distribution describes
the probability of
having exactly k
successes in n

independent Bernoulli
trials with probability of
success p . Statistics

101 (Mine C, etinkaya-
Rundel) L8: Geometric
and Binomial

September 22, 2011 13
/ 27 Binomial

distribution The
binomial distribution
Counting the # of
scenarios

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Binomial And
**Lecture 8: Geometric
and Binomial
distributions**

Negative Binomial
Distribution. Definition
1: Under the same
assumptions as for the
binomial distribution,
let x be a discrete
random variable. The
probability density
function (pdf) for the
negative binomial
distribution is the
probability of getting x
failures before k
successes where $p =$

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Binomial And

Geometric

Distributions

the probability of success on any single trial. Thus the pdf is

Negative Binomial and Geometric Distributions | Real

...

Geometric and negative binomial distributions Mixed exercise 3 1 a Let X denote the number of times required to throw a multiple of 3, $\text{Geo}(1/3)$
 $X \sim \text{Geo}(1/3)$
 $P(X=4) = (2/3)^3 (1/3) = 8/27 \approx 0.296$
 $P(X=5) = (2/3)^4 (1/3) = 16/243 \approx 0.066$
 $P(X=6) = (2/3)^5 (1/3) = 32/243 \approx 0.132$
 $P(X=7) = (2/3)^6 (1/3) = 64/243 \approx 0.263$
 $P(X=8) = (2/3)^7 (1/3) = 128/243 \approx 0.527$
 $P(X=9) = (2/3)^8 (1/3) = 256/243 \approx 1.053$
 $P(X=10) = (2/3)^9 (1/3) = 512/243 \approx 2.106$
 $P(X=11) = (2/3)^{10} (1/3) = 1024/243 \approx 4.212$
 $P(X=12) = (2/3)^{11} (1/3) = 2048/243 \approx 8.424$
 $P(X=13) = (2/3)^{12} (1/3) = 4096/243 \approx 16.848$
 $P(X=14) = (2/3)^{13} (1/3) = 8192/243 \approx 33.696$
 $P(X=15) = (2/3)^{14} (1/3) = 16384/243 \approx 67.392$
 $P(X=16) = (2/3)^{15} (1/3) = 32768/243 \approx 134.784$
 $P(X=17) = (2/3)^{16} (1/3) = 65536/243 \approx 269.568$
 $P(X=18) = (2/3)^{17} (1/3) = 131072/243 \approx 539.136$
 $P(X=19) = (2/3)^{18} (1/3) = 262144/243 \approx 1078.272$
 $P(X=20) = (2/3)^{19} (1/3) = 524288/243 \approx 2156.544$
 $P(X=21) = (2/3)^{20} (1/3) = 1048576/243 \approx 4313.088$
 $P(X=22) = (2/3)^{21} (1/3) = 2097152/243 \approx 8626.176$
 $P(X=23) = (2/3)^{22} (1/3) = 4194304/243 \approx 17252.352$
 $P(X=24) = (2/3)^{23} (1/3) = 8388608/243 \approx 34504.704$
 $P(X=25) = (2/3)^{24} (1/3) = 16777216/243 \approx 69009.408$
 $P(X=26) = (2/3)^{25} (1/3) = 33554432/243 \approx 138018.816$
 $P(X=27) = (2/3)^{26} (1/3) = 67108864/243 \approx 276037.632$
 $P(X=28) = (2/3)^{27} (1/3) = 134217728/243 \approx 552075.264$
 $P(X=29) = (2/3)^{28} (1/3) = 268435456/243 \approx 1104150.528$
 $P(X=30) = (2/3)^{29} (1/3) = 536870912/243 \approx 2208301.056$
 $P(X=31) = (2/3)^{30} (1/3) = 1073741824/243 \approx 4416602.112$
 $P(X=32) = (2/3)^{31} (1/3) = 2147483648/243 \approx 8833204.224$
 $P(X=33) = (2/3)^{32} (1/3) = 4294967296/243 \approx 17666408.448$
 $P(X=34) = (2/3)^{33} (1/3) = 8589934592/243 \approx 35332816.896$
 $P(X=35) = (2/3)^{34} (1/3) = 17179869184/243 \approx 70665633.792$
 $P(X=36) = (2/3)^{35} (1/3) = 34359738368/243 \approx 141331267.584$
 $P(X=37) = (2/3)^{36} (1/3) = 68719476736/243 \approx 282662535.168$
 $P(X=38) = (2/3)^{37} (1/3) = 137438953472/243 \approx 565325070.336$
 $P(X=39) = (2/3)^{38} (1/3) = 274877906944/243 \approx 1130650140.672$
 $P(X=40) = (2/3)^{39} (1/3) = 549755813888/243 \approx 2261300281.344$
 $P(X=41) = (2/3)^{40} (1/3) = 1099511627776/243 \approx 4522600562.688$
 $P(X=42) = (2/3)^{41} (1/3) = 2199023255552/243 \approx 9045201125.376$
 $P(X=43) = (2/3)^{42} (1/3) = 4398046511104/243 \approx 18090402250.752$
 $P(X=44) = (2/3)^{43} (1/3) = 8796093022208/243 \approx 36180804501.504$
 $P(X=45) = (2/3)^{44} (1/3) = 17592186044416/243 \approx 72361609003.008$
 $P(X=46) = (2/3)^{45} (1/3) = 35184372088832/243 \approx 144723218006.016$
 $P(X=47) = (2/3)^{46} (1/3) = 70368744177664/243 \approx 289446436012.032$
 $P(X=48) = (2/3)^{47} (1/3) = 140737488355328/243 \approx 578892872024.064$
 $P(X=49) = (2/3)^{48} (1/3) = 281474976710656/243 \approx 1157785744048.128$
 $P(X=50) = (2/3)^{49} (1/3) = 562949953421312/243 \approx 2315571488096.256$
 $P(X=51) = (2/3)^{50} (1/3) = 1125899906842624/243 \approx 4631142976192.512$
 $P(X=52) = (2/3)^{51} (1/3) = 2251799813685248/243 \approx 9262285952385.024$
 $P(X=53) = (2/3)^{52} (1/3) = 4503599627370496/243 \approx 18524571904770.048$
 $P(X=54) = (2/3)^{53} (1/3) = 9007199254740992/243 \approx 37049143809540.096$
 $P(X=55) = (2/3)^{54} (1/3) = 18014398509481984/243 \approx 74098287619080.192$
 $P(X=56) = (2/3)^{55} (1/3) = 36028797018963968/243 \approx 148196575238160.384$
 $P(X=57) = (2/3)^{56} (1/3) = 72057594037927936/243 \approx 296393150476320.768$
 $P(X=58) = (2/3)^{57} (1/3) = 144115188075855872/243 \approx 592786300952641.536$
 $P(X=59) = (2/3)^{58} (1/3) = 288230376151711744/243 \approx 1185572601905283.072$
 $P(X=60) = (2/3)^{59} (1/3) = 576460752303423488/243 \approx 2371145203810566.144$
 $P(X=61) = (2/3)^{60} (1/3) = 1152921504606846976/243 \approx 4742290407621132.288$
 $P(X=62) = (2/3)^{61} (1/3) = 2305843009213693952/243 \approx 9484580815242264.576$
 $P(X=63) = (2/3)^{62} (1/3) = 4611686018427387904/243 \approx 18969161630484529.152$
 $P(X=64) = (2/3)^{63} (1/3) = 9223372036854775808/243 \approx 37938323260969058.304$
 $P(X=65) = (2/3)^{64} (1/3) = 18446744073709551616/243 \approx 75876646521938116.608$
 $P(X=66) = (2/3)^{65} (1/3) = 36893488147419103232/243 \approx 151753293043876233.216$
 $P(X=67) = (2/3)^{66} (1/3) = 73786976294838206464/243 \approx 303506586087752466.432$
 $P(X=68) = (2/3)^{67} (1/3) = 147573952589676412928/243 \approx 607013172175504932.864$
 $P(X=69) = (2/3)^{68} (1/3) = 295147905179352825856/243 \approx 1214026344351009865.728$
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 $P(X=73) = (2/3)^{72} (1/3) = 4722366482869645213696/243 \approx 19424421509616157851.648$
 $P(X=74) = (2/3)^{73} (1/3) = 9444732965739290427392/243 \approx 38848843019232315703.296$
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