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Pns Lab 3-1

R=1 cr-1 8 neglected: P(x) 7 negative

 $= \frac{6}{8} + \frac{4}{6} = \frac{49}{60} = 0.7656$

= 49+1+8 = 58 = 0.9062 64 64

$$\frac{1}{1} \frac{(10)^{1}}{(10)^{1}} = \frac{1}{1} \frac{(10)^{1}}{(10)^{1}$$

a ΣP(n)=1

0.1.

(8R-1)(R+1)=0

·'. 12 = 1 = 0.125

P(1 = n < 5) = P(n < 5) + P(n = 5)

b. P(n(s) = P(n=1) + P(n=2) + P(n=3) + P(n=u) = k+2 | e+3 | k+4 | k²

= 49 + 1 + 1 64 64 8

Date / /

Page

P(n) 0.1 K 0.2 2K 0.3 3K 5P(n)=1

-1 0 1 2

· 0.1+ R+0.2+2K+0.3+3K=1 0.6+6 R=1

0.2. 2 -2

- 612=0.4 R = 0.4 = 1
- : K=1 =0.067
- b. P(n<2) = 1 (P(n=2) + P(n=3))= 1 (0.3 + 3)
- c. CDF

P(n) cof

0.3 0.8

0.067

0 - 2

0.133

0.2

O

2

- = 1-(5) = 5 = 0.5
- = 1- (3+1)

0.167

0.367

0.5

2

1/15

5

2

0.45

0.4

0.2

0.2

0.6

0 - .

0.2 0.3 0.2 0.15

V= 22+1

→ 2 -1 0 1 2

P(n) n P(n) $n^2 P(n)$

-0.15

-0.2

-0.2

0 0.2

= 1.85 - 0.0025

0.3

Variana = $E(n^2) - (E(n))^2 = 1.85 - (-0.05)^2$

P(n) 1/5 1/5 2/5 2/15

-3 -2 / -1 / 0

2

P(V) 4/15 5/15 6/15

0.05 0.1

0.05

0.1

0.2

0.3

0.2

0.15

E(n) = 5nP(n) = -0.05

F (n2) = 2 n2 P(n)=1.85

= 1.8475

V 5 2

v 5

Q. 4. N

P(n)

7

-2

-1

0

2

P(n) 1/5 1/5 2/5 2/15 1/15

0.3 2 -2 -1 0

Page

1	1	\triangle
		RANKA
	1	1 1

0.5. Urn: 7W, 3R n: white balls drawn 2 balls drawn together

n P(n) n P(n) CDF

0 1/15 0 1/15 1 7/15 7/15 8/15 2 7/15 14/15 15/15

F(n) = 5xP(n) = 21/15- = 1.4

Expectation = 1.4 = 1 white ball