Chapter: 5 Rinowial Probability Distribution () * Binowlal Probability Dietribution $f(x) = \binom{n}{p} px \left(1 - p\right)^{n-x}$ (1-p) = 0.77 a) f(x)= (n) pr (1-p) f(0) = (6) p (1-p) = (2)(0.23)(0.77)=(15)(0.0529)(0.3015)f (5) = (5.2789 (b) P(X72) = f(2) + f(3) + f(4) + f(5) + f(6)7 = 0.4180 147 = 0.0249 +(s)= 0.0030 +(6)= 0.0001

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(c) n=10 x=0 $f(0) = \begin{pmatrix} 10 \\ 0 \end{pmatrix} (0.23)^{2} (0.77)^{10}$ +(0) = 0.0733/ (29) Cerven p=30% = 0.30 (1-p)=0.70 (a) $N=10 \times =3$. +(3) = (3)(0-30)(0-70)+(3) = 0.2668 (b) p(x/3) = f(3) + f(4) + f(5) + f(10). +(3) = 0.2668 $\pm (4) = 0.2001$ f(c) = 0.1029 f(6) = 0.0368= 0.6171 H7) = 0.0090 f(8) = 0.0014 f(9) = 0.0001f(10) = 0.0000 vision