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$$C_{x}^{n}, P^{x}, q^{n-x} \rightarrow C_{2}^{16}, 0, 6^{7}, 0, 5^{6-7} = 11440 \cdot 0, 6^{1} = 0, 174561 - 20, 1746$$

$$E = \frac{1+8}{2} \cdot 31$$

$$P_{xy}(0,1) \cdot \frac{1}{7} P_{xy}(4,0) = \frac{1}{7} P_{xy}(2,2) = \frac{4}{7}$$

$$P_{x}(0) = \int \frac{1}{7} d\gamma = \frac{1}{7}$$

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$$P_{x}(1) = \int \frac{1}{7} d\gamma = \frac{1}{7}$$

$$P_{x}(2) = \int \frac{1}{7} d\gamma = \frac{1}{7}$$

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3.
$$\frac{2}{2!} = \frac{2}{2} \frac{2}{3!}$$

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$$2 = \frac{2}{3!}$$

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$$(6-1)^{2} = \frac{4^{2}}{12} = \frac{6}{12} = \frac{9}{7}$$

$$E(x) = 166 \qquad E(x) + Var(x)^{2}$$

$$E(x) = 166 \qquad uon + 166 = 566$$

$$E(x) = 3 = 10$$

$$Var(x) = 4 = 0^{2} - 3 = 2$$

N = 120

$$P(x > h) = 1 - P(x \le h)$$

$$2P(x \le h) = 1 - P(x \le h)$$

$$P(x \le h) = 1$$

$$P(x \le h) = \frac{1}{3}$$

$$h = \frac{x - 3}{2}$$

$$\frac{6-4(1)}{\sqrt{(41-4^{2})(20-(1)^{2})}} = \frac{6}{5.3} = \frac{6}{15}$$