Disterbution ASSIGNMENT

$$\frac{(b)}{10000} = \frac{3000}{10000} = .3$$

$$\frac{38500 - 38000}{10000} = \frac{500}{10000} = 105$$

=

$$= 200^{5} \times (\frac{1}{4})^{15} \times (\frac{3}{4})^{5}$$

$$= \frac{20 \times 19 \times 18 \times 17 \times 16}{5 \times 4 \times 3 \times 2 \times 1} \times (\frac{1}{4})^{15} \times (\frac{3}{4})^{5}$$

$$= \frac{1866480}{120} = 15,504$$

=
$$15509 \times (1/4)^{15} \times (3/4)^{5}$$

1.
$$(n=0,5,3)+(n=1,5,3)+(n=2,5,3)$$

1 = 11681 + 13601 + 13087

1. The chances of general at least 2 aupted

15 Sum of $n_5 = 18369$

0. 12). $n=20$
 $p=5.1$. ie, 1.05 , $n=0$

(a) less than 1

 $P=20C^{\circ}_{1}x.05^{\circ}_{1}x.95^{\circ}_{2}$
 $P_{0}=13585$

(b) less than 1 on eval to $1=x=41$
 $P=20C^{\circ}_{1}x.05^{\circ}_{1}x.95^{\circ}_{2}$
 $P_{1}=3779$

1. $P_{1}+P_{0}=13585+3779$

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1. $P_{1}+P_{1}+P_{2}=358+3779$

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1. $P_{2}+P_{1}+P_{2}=358+3779$

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$$P = {}_{5}C^{2} \times .05^{2} \times .95^{3}$$

$$= .0214$$

(b) enoutly twice in 2 year

(c) at least once in non lyear

(a) enerty 2 of 15