

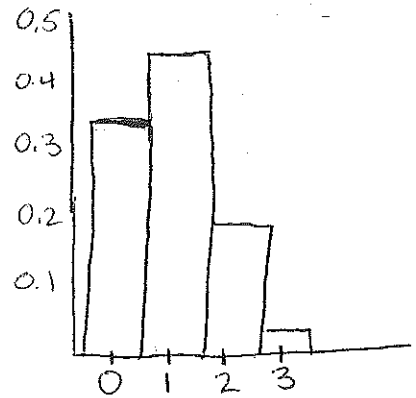


$${}^n C_k (p)^k (q)^{n-k}$$

33)

X	0	1	2	3
P(x)	.343	.441	.189	.027

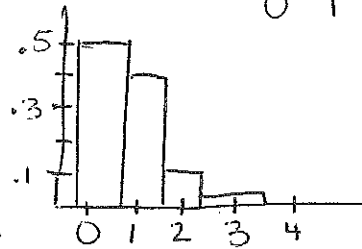
Skewed; 1 success



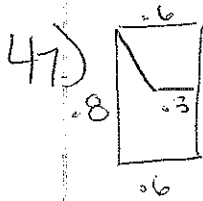
35)

X	0	1	2	3	4
P(x)	.5	.38	.12	.01	0

Skewed; 0 success



43)  $P(1\%) = {}_{25}C_1 \cdot (.01)^1 \cdot (.99)^{24} \approx .196$



whole AREA = .48 m<sup>2</sup>

carrot AREA =  $\frac{1}{2} (.9)(.3) = .135 \text{ m}^2$

$p = \text{carrot} \approx .28$   $q = \text{not carrot} = .72$

$\leftarrow {}_7C_0 (.28)^0 (.72)^7, {}_7C_1 (.28)^1 (.72)^6, \dots, {}_7C_7 (.28)^7 (.72)^0$

a) b)

X	0	1	2	3	4	5	6	7
P(x)	.1	.27	.32	.21	.08	.02	0	0

