$$\frac{151}{7!} \Rightarrow \frac{259459200}{2562890625} = 0.1012 = 10.12.1.$$

$$\Rightarrow P(A) = P(A_1) + P(A_2) = \left(\frac{3}{2}\right)\left(\frac{1}{2}\right)^2 \left(\frac{1}{2}\right) + \left(\frac{3}{2}\right) \left(\frac{1}{2}\right)^6$$

$$P(B) = \frac{1}{6} \times \frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$$

$$P(A \cap B) = \frac{3}{6} \times \frac{1}{6} \times \frac{1}{6} = \frac{1}{72}$$

$$P(A) \cdot P(B) = \frac{1}{2} \cdot \frac{1}{36} = \frac{1}{72}$$

) geometric distribution
$$P(f) = \begin{bmatrix} 4 \\ 1 \end{bmatrix} \cdot \begin{bmatrix} 13 \\ 5 \end{bmatrix} = \frac{4!}{3!} \cdot \frac{13!}{5!8!}$$

$$= 4.1287 = 5148 \text{ handh}$$

$$P(h) = \begin{bmatrix} 52 \\ 5 \end{bmatrix} = \frac{62!}{5!41!} = 2598960 \text{ hands}$$

$$P = \underbrace{5148}_{2598500} = 0.00198$$

$$ELX = \frac{505 \text{ hands}}{505 \text{ hands}}$$

2) With terms with the played
$$P(s) = 0.75$$
 $P(s') = 0.25$ [when $P(s)$ is $S + ab$ played $P(s) = 0.75$ $P(w) = P(w)$ $P(w) = P(w)$

Binomial distribution = P(W15) = (5) (0.70) (0.30) = 0.36015 P(W15') = 0.15625

$$= > \underbrace{0.36619 \times 0.75}_{6.36019 \times 0.79 + 0.25 \times 6.19625} = > 0.87$$

. " there is a 87% chance