

3.40

On tire 9 cartes d'un jeu de 36 :

$$\#U = C_9^{36} = 94143280$$

$$36 \text{ [nCr] } 9$$

TI 30

↑
choix de 9
parmi 36

$$\#AS = X$$

$$E = \sum x \cdot p(X=x)$$

x_i	$p(X=x_i)$	f_i
0	0,2979	0
1	0,4469	0,4469
2	0,2145	0,4290
3	0,0385	0,1155
4	0,0021	0,0084
100%		

produit $x \cdot p(X=x)$

$$\bar{x} = \sum f_i \cdot x_i$$

$$E = 0,9995 \approx 1$$

$$P(0AS) = \frac{C_9^{32}}{C_9^{36}} = \frac{390}{1309}$$

$$P(1AS) = \frac{C_1^4 \cdot C_8^{32}}{C_9^{36}} = \frac{585}{1309}$$

$$P(2AS) = \frac{C_2^4 \cdot C_7^{32}}{C_9^{36}} = \frac{1404}{6545}$$

$$P(3AS) = \frac{C_3^4 \cdot C_6^{32}}{C_9^{36}} = \frac{36}{935}$$

$$P(4AS) = \frac{C_4^4 \cdot C_5^{32}}{C_9^{36}} = \frac{2}{935}$$