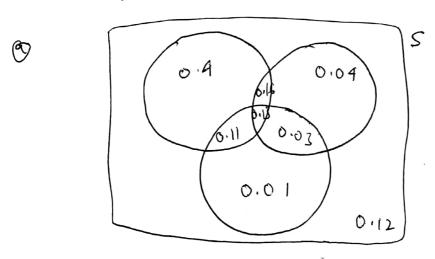
## HOME WORK 1

1. (3.7.1)

A = {quartz specimens are found} B = {townaline specimens are found} c = (aquamanine spéiners core found)

PA) = 0.80, PCB)= 0.36, PC)= 0.28, PLANB) = 0.29 PCANC) = 0.24, PCanc) = 0.16, PCANBAC) = 0.13



$$\begin{array}{c|c}
\hline
0 & 6\times 5\times 4\times 3 \\
\hline
0 & 4 & 6A \\
\hline
0 & 4 & 6A \\
\hline
0 & 11112
\end{array}$$

2. (3.7.5)

(a) 
$$1 - \alpha 11 \text{ faces even}$$

$$= 1 - (\frac{1}{6})^4 = 1 - (\frac{1}{6})^4 - 1 - \frac{1}{16}$$

(b)  $6 \times 5 \times 4 \times 3 = 5 \times 4 \times$ 

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$$\left(\frac{2^{10}-2}{4^{10}}\right) \times 6 + \left(\frac{1}{4}\right)^{10} \times 4$$

$$^{6}$$
  $^{4}$   $^{6}$   $^{20}$   $^{19}$   $^{19}$   $^{18}$   $^{17}$   $^{16}$   $^{15}$   $^{15}$   $^{16}$   $^{15}$   $^{15}$