$$P(A) = \frac{150}{200} = \frac{15}{20} = 0,75$$

$$P(B) = \frac{50}{200} = \frac{5}{20} = 0,25$$

$$P_{A}(F) = 0.4$$
 $P_{B}(F) = 0.7$

$$P_B(F) = 0.7$$

$$0.75 \times A = 0.15 \times A = 0.3$$
 $0.75 \times A = 0.3$
 $0.75 \times A = 0.3$

2) A et B sont indépendants en
$$p(ANB) = p(A) \times p(B)$$

 $p(AUB) = p(A) + p(B) - p(ANB)$

$$p(A \cap B) = p(A) + p(B) - p(A \cup B)$$

= 0,4 + 0,5 - 0,7 = 0,2

$$p(A) \times p(B) = \theta, \lambda \times \theta, S = 0, \lambda \Rightarrow 0$$

3)
$$P_F(A) = \frac{P(F \cap A)}{P(F)}$$

$$P(F) = 0.3 + 0.25 \times 0.7 = 0.475$$

$$P_{f}(A) = \frac{0.3}{0.475} = 0.63157... = \frac{12}{19}$$

4)
$$P_s(T) = \frac{1}{2} P_s(T) = \frac{1}{5}$$

$$P(A \cap B) = \frac{1}{3} \times \frac{2}{5} = \frac{2}{15}$$

$$\frac{1}{3} \times \frac{7}{5} = \frac{2}{15}$$

$$P_{\overline{A}}(B) = P(\overline{A}) \times P_{\overline{A}}(B) = P(\overline{A} \cap B) = \frac{1}{2}$$

$$p(0) = p(ANB) + p(\overline{A}NB) = \frac{2}{15} + \frac{1}{2} = \frac{4+15}{30} = \frac{13}{30}$$

$$P(AUB) = \frac{1}{3} + \frac{19}{30} - \frac{2}{15} = \frac{10+19-4}{30} = \frac{15}{30} = \frac{5}{6}$$

$$\frac{4}{6} \times \frac{2}{5} = \frac{8}{30} = \frac{4}{15}$$

7)
$$P(A) = \frac{150}{200} = 0,75$$

$$\begin{array}{c|c}
& 3/4 & B \\
\hline
A & 1/4 & B
\end{array}$$

$$p(\bar{A}) \times p_{\bar{A}}(\bar{B}) = \frac{1}{2} = P_{\bar{A}}(\bar{B}) = \frac{1}{2} = \frac{1}{2} \cdot \frac{3}{4} = \frac{3}{4}$$

19)
$$10 \times \frac{1}{6} = \frac{5}{3}$$
 $p = \frac{1}{6}$ $q = \frac{5}{6}$ $E(X) = NP$

12)
$$N=9$$
 $p=0,2$
 $E(x)=9\times0,2$ $T(x)=\sqrt{9\times0,2}(1-0,2)$
 NP

13)
$$V(X) = np(1-p) = 6 \times \frac{2}{5} \times \frac{3}{5} = \frac{36}{25}$$