

QUESTION 1

$$M \cup P = 0.17, P(P) = 0.12, P(M \cap P) = 0.06$$

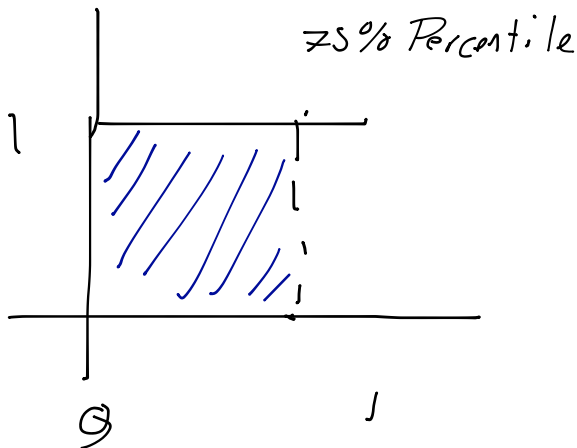
$$P(M \cup P) = P(P) + P(M) - P(M \cap P)$$

$$0.17 = 0.12 + P(M) - 0.06$$

$$P(M) = 0.17 - 0.12 + 0.06$$

$$P(M) = 0.11 = \boxed{11\%}$$

QUESTION 2



QUESTION 3

$$P(X) = 0.5, P(Y) = 0.5, P(X) = P$$

$$\frac{P(P)}{1-P} = \frac{X}{Y}$$

$$\boxed{\frac{P}{1-P} = \frac{X}{Y}}$$

QUESTION 4

