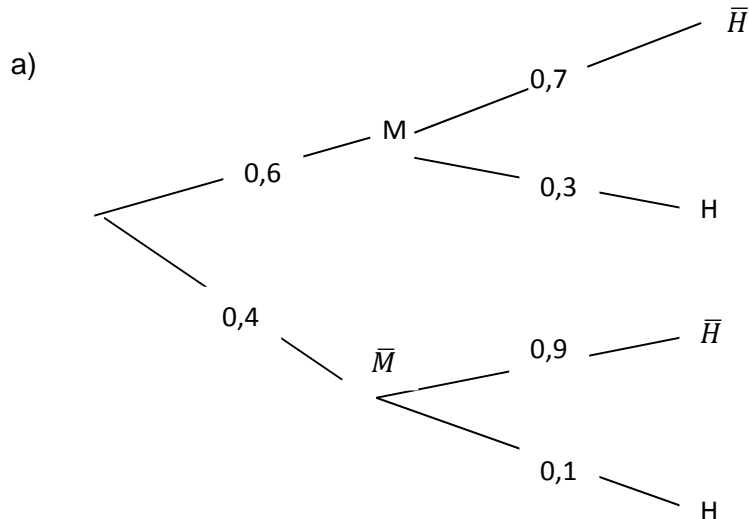


BACCALAURÉAT GÉNÉRAL ET TECHNOLOGIQUE
ÉPREUVE SPÉCIFIQUE DES SECTIONS EUROPÉENNES
MATHEMATIQUES – ANGLAIS

Corrigé 15

Thèmes : Probabilités



b) $P(M \cap H) = 0.6 \times 0.3 = 0.18$

The probability that the customer buys a box of milk chocolates with hazelnuts is 0.18

c) $P(H) = 0.6 \times 0.3 + 0.4 \times 0.1 = 0.22$

The probability that the customer buys a box of chocolates containing hazelnuts is 0.22)

d) $P_H(M) = \frac{P(M \cap H)}{P(H)} = \frac{0,18}{0,22} \approx 0.82$

The probability that the customer buys a box of milk chocolate given that it contains hazelnuts is 0.82

e) $(0.42 \times 5 + 0.18 \times 6 + 0.36 \times 8 + 0.04 \times 9) \times 100 = 642$

His average earning is 642 dollars per day.