BAC 2016
Terminale ES
Mathématiques

Corrigé

Exercice 3

Partie A

1.

$$p(R) = \frac{960}{3200} = 0{,}3$$

2.

$$p_R(F) = 0{,}35$$

3.

$$p(R \cap F) = p(R) \times p_R(F) = 0{,}105$$

4.

$$On\ sait\ que\ p(F) = 0{,}385$$

$$Donc\ p(F \cap \bar{R}) = p(F) - p(F \cap R) = 0{,}385 - 0{,}105 = 0{,}28$$

5.

$$p_{\bar{R}}(F) = \frac{p(\bar{R} \cap F)}{p(\bar{R})} = \frac{0{,}28}{0{,}7} = 0{,}4$$

Partie B

1.

$p(15 \leq X \leq 45) \approx 0{,}866$ $D'après\ la\ calculatrice\ normalFrep(15{,}45{,}30{,}10)$

2.

$$p(X \geq 60) \approx 0{,}001 \quad calculatrice\ normalFrep(60{,}10^{99}{,}30{,}10)$$