Probabilidade 1 - Tarifa Básica - CTTI 317

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(A)

1 - (FUVEST)

$$P = \frac{10}{20} \cdot \frac{9}{19} = \frac{90}{380} = \frac{9}{38}$$

2 - (UEL)

$$n(S) = 6, \quad n(A) = 3$$

$$P = \frac{n(A)}{n(S)} = \frac{3}{6} \quad \text{ou} \quad \frac{1}{2} \qquad (D)$$

3 - (VUNESP)

$$1000 \cdot \frac{17}{100} = 170$$

$$700 \cdot \frac{44}{100} = 74,8$$

$$P(Fm) = \frac{74,8}{1000} = 0,0748 \sim 0,075$$

(B)

4 - (MACK)

$A = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37\}$

$$C_{12,2} = \frac{12!}{2!(12-2)!} = \frac{12 \cdot 11 \cdot 10!}{2! \, 10!} = \frac{12 \cdot 11}{2}$$

$$= \frac{132}{2} = 66 \rightarrow n(E)$$

$\{(3,5), (5,7), (11,13), (17,19), (29,31)\}$

$n(A) = 5$

$$P(A) = \frac{n(A)}{n(E)} = \frac{5}{66}$$

B

5 - (MACK)

$\{3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42,$
$45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 84,$
$84, 87, 90, 93, 96, 99\}$

$n(A) = 33$

B

$$P(A) = \frac{33}{99} \quad \text{ou} \quad \frac{1}{3}$$

6 - (MACK)

$n(E) = 6^2 = 36$

$\{(1,6), (6,1), (2,5), (5,2), (3,4), (4,3)\}$

$n(A) = 6$

$P(E) = \dfrac{n(A)}{n(E)} = \dfrac{6}{36}$ ou $\dfrac{1}{6}$ Ⓒ