D S T Q Q S S

Tarefa Básica - Probabilidade I

01. P × P = P $I = \{1, 3, 5, 7, 9, 11, 13, 15, 17, 19\}$ 10 elementos

P × I = P

I × I = I, $n(I) = C_{10,2} = \frac{10 \cdot 9}{2 \cdot 1} = 45$

$n(S) = C_{20,2} = \frac{20 \cdot 19}{2 \cdot 1} = 190 \rightarrow P(I) = \frac{45}{190} = \boxed{\frac{9}{38} \text{ (A)}}$

02. $P = \{2, 4, 6\} \rightarrow n(P) = 3$ $P(P) = \frac{n(P)}{n(S)} = \frac{3}{6} = \boxed{\frac{1}{2} \text{ (D)}}$

$S = \{1, 2, 3, 4, 5, 6\} \rightarrow n(S) = 6$

03. 1000 100 1700 100 $P = \frac{75}{1000} = \boxed{0,075 \text{ (B)}}$

x 17 y 44

x = 170 fumam y ≈ 75 mulheres fumam

04. $A = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31\}$ $n(A) = 12$ $C_{12,2} = 66$

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

$P = \frac{\cancel{n(B)}}{\cancel{n(S)}} \boxed{\frac{5}{66} \text{ (B)}}$

05. $\frac{99}{3} = 33$ $P = \frac{33}{99} = \boxed{\frac{1}{3} \text{ (B)}}$

06. $A = \{(1,6), (2,5), (3,4), (4,3), (5,2), (6,1)\}$ $n(A) = 6$

$P = \frac{6}{6 \cdot 6} = \boxed{\frac{1}{6} \text{ (C)}}$

SÁBADO DOMINGOS