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PROBABILIDADE 1

EXERCÌCIOS 1, 2 e 3

01. (FUVEST)

2 -> números 1 a 20 -> Impar

$N(B) = \{1, 3, 5, 7, 9, 11, 13, 15, 17, 19\}$

$C_{10,2} = \frac{10!}{2!\,8!} = \frac{10.9.8!}{8!.2.1} = \frac{720}{16} = 45$

$C_{20,2} = \frac{20!}{2!\,18!} = \frac{20.19.18}{18!.2.1} = \frac{6840}{36} = 190$

$P(B) = \frac{45}{190} = \frac{9}{38}$ // Resposta A

02. (UEL)

$\{2, 4, 6\}$

$N(P) = 3$

$P(P) = 3/6 = 1/2$ // Resposta D

03. (VUNESP)

1000 = 17% Fuma -> 170 pessoas
44% mulheres -> 75 mulheres fumam

P(M) 75/1000 = 0,075 // Resposta B

EXERCÌCIOS 4, 5, e 6

04. (MACK)

$A = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37\} = 12$ números

$C_{12,2} = \frac{12!}{2!\,10!} = \frac{12 \cdot 11 \cdot 10!}{10!\,2 \cdot 1} = \frac{1320}{20} = 66$

$N(A) = ?/66$

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

$N(A) = 5/66$ // Resposta B

05. (MACK)

$99/3 = 33$

$N(A) = 33$
$P(A) = 33/99 = 1/3$ // Resposta B

06. (MACK)

$(2,5), (5,2), (3,4), (4,3), (1,6), (6,1)$

$N(s) = 6 \cdot 6 = 36$
$P = 6/36 = 1/6$ // Resposta C