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Tarefa Básica - Probabilidade

1.

$A = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20\}$

10 → ímpares → 20
9 → ímpares → 19

$P = \frac{10}{20} \cdot \frac{9}{19} = \frac{1}{2} \cdot \frac{9}{19} = \frac{9}{38}$

impar . impar = impar

2 números ímpares

2.

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

$P(A) = \frac{3}{6} = \frac{1}{2}$

3

3.

1000 pessoas → 17% fumam → 44% M

17% de 1000 = 170
170 fumantes de 1000

44% de 170 = 74,8 ≅ 75

n(M) = 75 $\frac{75}{1000} = 0,075$
n(S) = 1000

R: b)

4. (2, 3, ..., 37)
{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37}

C 12,2 = $\frac{12.11}{2.1} = \frac{132}{2} = 66$

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

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

5.

$1 \leq n \leq 99$

$\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

$P(A) = \frac{3}{9} = \frac{1}{3}$ $n(A) = 3 \rightarrow$ de 1 a 9 tem 3 números divisíveis por 3

6.

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

$n(S)\ 6.6 = 36$

$\frac{6}{36} = \frac{1}{6}$ //