Tarefa Básica

(01) 5 lâmpadas
2 defeituosas
3 boas

$\frac{3}{5} \cdot \frac{2}{4} \cdot \frac{2}{3}$ · P3 com rep de 2

$\frac{\cancel{3}}{5} \cdot \frac{\cancel{2}}{\cancel{4}} \cdot \frac{2}{\cancel{3}} \cdot \frac{3!}{2!} = \frac{1}{5} \cdot \frac{1}{\cancel{2}} \cdot \cancel{2} \cdot 3 \cdot \frac{\cancel{2!}}{\cancel{2!}} =$

$\frac{1}{5} \cdot \frac{3}{1} = \frac{3}{5}$ //

(02) 2 dados = 6.6 = 36

$n(s)$

$A = \{\text{soma } 3\} = \{(2,1),(1,2)\} = n(A) = n(A) = 2$

$B = \{\text{soma } 6\} = \{(5,1),(1,5),(4,2),(2,4),(3,3)\} = n(B) = 5$

$A \cap B = 0$

$\frac{2}{36} + \frac{5}{36} - 0 = \frac{7}{36}$ D//

(03) $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ ↳1

95% = P(A) = 0,95

8% = P(B) = 0,08

P(AUB) = 0,95 + 0,80 = 1

P(AUB) = 1,03 - 1

P(AUB) = 0,03 - 3% //

(04) S = 10.10 = 100 → POSSIBILIDADES

0.0 = 0.0 = 0 → 1

1.0 = 0.1 = 0 → 2

2.0 = 0.2 = 0 → 2

⋮

9.0 = 0.9 = 0 → 2

T = 9.2 + 1 = 18 + 1 = 19

2.5 = 5.2 = 0 → 2
4.5 = 5.4 = 0 → 2
6.5 = 5.6 = 0 → 2

8.5 = 5.8 = 0 →
T = 2 + 2 + 2 + 2 = 8

T = 19 + 8 = 27 unidades terminadas em 0

$\frac{27}{100}$

$P = \frac{(100-27)}{100} = \frac{73}{100} = 0,73 = 73\%$ //

(05) S = 10

7 livros de economia

4 outros → P4

$P = \frac{7!\,4!}{10!} = \frac{7!\,4!}{10.9.8.7!} = \frac{4!}{720} = \frac{24}{720:24} = \frac{1}{30}$ C //

(06) lados - pintura

3 - A → probabilidade $\frac{1}{2}.\frac{1}{2}.\frac{1}{2} = \frac{1}{8}$

2 - A, 1 - B → $3.\frac{1}{2}.\frac{1}{2}.\frac{1}{2} = \frac{3}{8}$

1 - A, 2 - B → $3.\frac{1}{2}.\frac{1}{2}.\frac{1}{3} = \frac{3}{8}$

3 - B → $\frac{1}{2}.\frac{1}{2}.\frac{1}{2} = \frac{1}{8}$

$P = \frac{1}{8}.\frac{1}{8} + \frac{3}{8}.\frac{3}{8} + \frac{3}{8}.\frac{3}{8} + \frac{1}{8}.\frac{1}{8} = \frac{20:4}{64:4} = \frac{5}{16}$ D //

(07) $C_{10,2} \rightarrow \frac{10.9}{2.1} = \frac{90}{2} = 45$

5 → PODE TER VENDIDO → 6, 7, 11, 12 ou 14 → 5 CASOS
10 → PODE TER VENDIDO → 11, 12 ou 14 → 3 CASOS
13 → PODE TER VENDIDO → 14 → 1 CASO
Total = 5+3+1 = 9 casos favoráveis
$P = \frac{9:9}{45:9} = \frac{1}{5}$

(08) S = 9 números na roleta
A = soma 5 = 3,2 ou 2,3
$n(A) = 2 \quad P(A) = \frac{2}{9}$ D//
$n(S) = 9$

(09) $C(6,3) = \frac{6.5.4}{3.2.1} = \frac{120}{6} = 20$

6 vértices → 12 triângulos
$P = \frac{12:4}{20:4} = \frac{3}{5}$ C//