

Tarefa básica

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

$$\frac{1! \cdot 3!}{5! \cdot 1! \cdot 5!}$$

2. (Vunesp) $A \cdot B = 1/36$

6 de 1a.6:

$$(1+5); (5+1); (2+4); (4+2); (3+3)$$

3 de 1a.6:

$$(1+2); (2+1)$$

3 possibilidades,, (c)
36

3. (Fuvest)

$$P = 0,95 + 0,80 - 1$$

$$P = 1,03 - 1$$

$$P = 0,03 = 3\%$$

$$95\% = P(A) = 0,95$$

$$8\% = P(B) = 0,08$$

4. (Fuvest)

$$P = \frac{100 - 27}{100} = \frac{73}{100}$$

$$(0,0); (0,0); (0,1); (1,0); (2,0); (0,2); (3,0); (0,3); \dots$$

$$P = 0,73 = 73\%$$

$$9 \cdot 2 + 1 = 19 \text{ possibilidades}$$

$$(2,5); (5,2); (4,5); (5,4); (6,5); (5,6); (8,5); (5,8)$$

tilibra

$$19 + 8 = 27$$

5. (*)

$$P = \frac{7! \cdot 4!}{10!} = \frac{7! \cdot 4!}{10 \cdot 9 \cdot 8 \cdot 7} = \frac{4!}{720} = \frac{24}{720} = \frac{1}{30}$$

$$6. \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{8} \quad ; \quad 3 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{3}{8}$$

$$P = \frac{1}{8} \cdot \frac{1}{8} + \frac{3}{8} \cdot \frac{3}{8} + \frac{3}{8} \cdot \frac{3}{8} + \frac{1}{8} \cdot \frac{1}{8} = \frac{20}{64} = \frac{5}{16}$$

$$7. C_{10,2} = \frac{10 \cdot 9}{2 \cdot 1} = \frac{90}{2} = 45$$

$$5 = 6, 7, 11, 12, 14 \rightarrow 5 \text{ casos}$$

$$5 + 3 + 1 = 9 \text{ números}$$

$$10 = 11, 12, 14 \rightarrow 3 \text{ casos}$$

$$P = \frac{9}{45} = \frac{1}{5}$$

$$13 = 14 \rightarrow 1 \text{ caso}$$

$$45 \quad 5 //$$

8. 5:3 números na rodeta

$$A = (3, 2); (2, 3)$$

$$n(A) = 2 \quad P(A) = \frac{2}{9}$$

$$n(S) = 9 \quad 9 //$$

$$8. C_{6,3} = \frac{6 \cdot 5 \cdot 4}{3 \cdot 2 \cdot 1} = \frac{120}{6} = 20 //$$

6 vértices 12 Triângulos

$$P = \frac{12}{20} = \frac{3}{5}$$