

Ficha de Trabalho 5

EXERCÍCIO 1

.1

$$P(1) = \frac{422}{2223} = 0,189$$

.2

$$P(2) = \frac{467}{2223} = 0,21$$

.3

$$P(3) = \frac{2774}{2223} = 0,95$$

.4

$$P(4) = \frac{27}{2223} = 0,012$$

EXERCÍCIO 2

.1 1

$$.2 \quad 0,30 + 0,10 = 0,40$$

$$.3 \quad 0,25 + 0,35 = 0,60$$

$$.4 \quad 0,35 + 0,30 + 0,10 = 0,75$$

$$.5 \quad 0,25$$

EXERCICIO 3

$$.1 \quad \Omega = \{ 1,1; 1,2; 1,3; 2,1; 2,2; 2,3; 3,1; 3,2; 3,3 \}$$

$$.2 \quad X = \begin{matrix} & 1 & 2 & 3 & 4 & 5 & 6 \end{matrix}$$

$$\text{TOTAL} = 9$$

$$P(2) = \frac{1}{9} = 0,11$$

$$P(3) = \frac{2}{9} = 0,22$$

$$P(4) = \frac{3}{9} = 0,33$$

$$P(5) = \frac{2}{9} = 0,22$$

$$P(6) = \frac{1}{9} = 0,11$$

$$.3 \quad \text{VALOR MEDIO } M = \frac{2+3+4+3+4+5+4+5+6}{9} = 4$$

$$.4 \quad P(5) = \frac{2}{9} = 0,22$$

EXERCICIO 4

B = boy

W = Women

$$.1 \quad \Omega = \begin{matrix} & X \\ \left(\begin{array}{l} B B B \\ B B W \\ B W B \\ B W W \\ W W W \\ W W B \\ W B W \\ W B B \end{array} \right) & \begin{matrix} 3 \\ 2 \\ 2 \\ 1 \\ 0 \\ 1 \\ 1 \\ 2 \end{matrix} \end{matrix}$$

$$.2 \quad \text{VALOR ESPERADO} = \frac{3+2+2+1+0+1+1+2}{8} = 1,5$$

$$\text{VARIANCIA} = 3 - 0 = 3$$

.3

$$a) = \frac{3}{8} = 0,375$$

$$b) = \frac{7}{8} = 0,875$$

$$c) = \frac{2}{8} = 0,25$$

$$d) = \frac{1}{8} = 0,125$$