Suto 3 - Propabilidade

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total 2 = 12

mingrum overton: 1/3. 15. 3/30 = 1/30 = 0,02

alguern acertan: J-0,02 = 0,98

3) P(C) = JOV

$$= P(C) \cdot P(G(C) + P(C) \cdot P(G(C)) = \frac{1}{2000} \cdot \frac{1}{2000} \cdot \frac{1}{2000} \cdot \frac{1}{2000} = \frac{20}{2000} = 0,068$$



4) P(B) = 1/4	P(A18) = 850	
	1	
P(M)= 1/2	P(AIM)= J/2	
- 1	0(1151-1	
P(F)= 19	P(A1F)= 15	

$$P(F|A) = \frac{P(F\cap A)}{P(A)}$$

$$P(A) = P(A \cap B) \cup P(A \cap M) \cup P(A \cap F)$$

 $P(B) \cdot P(A \mid B) + P(M) \cdot P(A \mid M) + P(F) \cdot P(A \mid F) = \frac{1}{4} \cdot \frac{8}{50} + \frac{1}{2} \cdot \frac{1}{2} + \frac{1}{4} \cdot \frac{1}{5} = \frac{1}{2}$

$$P(F|A) = \frac{1}{20} = \frac{1}{10}$$

7)
$$P(B_1) = \frac{3}{50}$$
 $P(D|B_1) = \frac{1}{50}$
 $P(B_2) = \frac{9}{20}$ $P(D|B_2) = \frac{3}{500}$
 $P(B_3) = \frac{1}{4}$ $P(D|B_3) = \frac{1}{500}$

$$P(D) = P(D \circ B_3) \circ P(D \circ B_2) \circ P(D \circ B_3)$$

$$P(B_1) \cdot P(D|B_1) + P(B_2) \cdot P(D|B_2) + P(B_3) \cdot P(D|B_3)$$

 $\frac{3}{10} \cdot \frac{1}{50} + \frac{9}{20} \cdot \frac{3}{100} + \frac{1}{4} \cdot \frac{1}{50} = 0,0245$

$$\frac{P(B_{3}|D) = P(B_{3} \cap D)}{P(D)} = \frac{P(B_{3}) \cdot P(D|B_{3})}{P(D)} = \frac{J_{1} \cdot J_{30}}{0.0245} = \frac{30}{49} = 0.20$$

$$a - P(AID) = \frac{P(ADD)}{P(D)} = 0.78 = 0.94$$



9) $8_{12} \cdot \frac{7}{33} = \frac{34}{33} = 0,42$
$JO) a - \frac{7}{18} \cdot \frac{6}{51} = \frac{7}{53} = 0.337$
b-758.6/8=754=0,129
$J) P(J \cap H \cap R) = P(J) \cdot P(H) \cdot P(R) = 0,4 \cdot 0,3 \cdot 0,2 = 0,024$
: P(3) H n 2) = 0,024
(tilibra)