P(F=0)=?

$$= \frac{6}{8} \cdot \frac{4}{10} + \frac{1}{4} \cdot \frac{6}{10} = \frac{3}{4} \cdot \frac{2}{5} + \frac{1}{4} \cdot \frac{3}{5}$$

$$=\frac{6+3}{20}=\frac{9}{20}$$

$$\rightarrow P(F=a)$$

$$= P(F=a,B=r) + P(F=a,B=b)$$

$$= \frac{2}{8} \cdot \frac{4}{10} + \frac{3}{4} \cdot \frac{6}{10} = \frac{1}{4} \cdot \frac{2}{5} + \frac{3}{4} \cdot \frac{3}{5}$$

$$=\frac{2+9}{20}=\frac{11}{20}$$

$$\frac{P(F=0 \mid B=r) P(B=r)}{P(F=0)} = \frac{\frac{6}{8} \cdot \frac{4}{10}}{\frac{9}{20}} = \frac{\frac{3}{4} \cdot \frac{2}{5}}{\frac{9}{20}}$$

$$=\frac{6}{9}=\frac{2}{3}$$

$$\frac{P(F=0 \mid B=b) P(B=b)}{P(F=0)} = \frac{\frac{1}{4} \cdot \frac{6}{10}}{\frac{9}{20}} = \frac{\frac{1}{4} \cdot \frac{3}{5}}{\frac{9}{20}}$$

$$=\frac{3}{9}=\frac{1}{3}$$

P(F=a	F = a) B = r) P(F = a)	P(B=r)	= 2 8 1 20	4 0 =	1 · 2 / 5 / 5 / 20
> P(B=	B F = a B = b) P(F = a)	Control of the last of the las	3 4 11 20	6 10 =	3 · 3 4 · 5 11 20
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