

Corrige - du livre p. 101

a) Pair = 2, 4, 6  
 $\uparrow$  2 = 3, 4, 5, 6

$$\frac{P(\text{Pair} \cap \uparrow 2)}{P(\uparrow 2)} = \frac{2/6}{4/6} = \left(\frac{1}{2}\right)$$

b) Multiple de 3 = 3, 6  
 $\downarrow$  5 = 1, 2, 3, 4

$$\frac{P(M \cap \downarrow 5)}{P(\downarrow 5)} = \frac{1/6}{4/6} = \left(\frac{1}{4}\right)$$

c) diviseur = 1, 2, 3, 6  
Pair = 2, 4, 6

$$\frac{P(d \cap \text{Pair})}{P(\text{Pair})} = \frac{2/6}{3/6} = \left(\frac{2}{3}\right)$$

d) ns premier = 2, 3, 5  
pair = 2, 4, 6

$$\Rightarrow \frac{1/6}{3/6} = \left(\frac{1}{3}\right)$$

e) multiple de 4 = 4  
 $\uparrow$  4 = 5, 6

$$\frac{0}{2/6} = \left(0\right)$$

$$\textcircled{4} \text{ a) } P(A|B)$$

$$\frac{P(A \cap B)}{P(B)} = \frac{3/15}{7/15} = \textcircled{3/7}$$

$$\text{b) } P(B|A)$$

$$\frac{P(B) \cap P(A)}{P(A)} = \frac{3/15}{7/15} = \textcircled{3/7}$$

$$\text{c) } P(A|C)$$

$$\frac{P(A) \cap P(C)}{P(C)} = \frac{3/15}{6/15} = \textcircled{\frac{1}{2}}$$

$$\text{d) } P(C|A)$$

$$\frac{P(C) \cap P(A)}{P(A)} \Rightarrow \frac{3/15}{7/15} = \textcircled{3/7}$$

$$\text{e) } P(A \cap B | B)$$

$$\frac{P(A \cap B) \cap P(B)}{P(B)} = \frac{3/15}{7/15} = \textcircled{\frac{3}{7}}$$

$$\text{f) } \frac{P(B) \cap P(A \cap C)}{P(A \cap C)}$$

$$= \frac{2/15}{3/15} = \textcircled{\frac{2}{3}}$$