2017 2016

04

2008

5

10

8 6 4 2 2 1 6

5 5 3 1

15

15

4

3 7

1 1 2 2 2 1 2

1

1

1

2

3

2009

4

9

5 1 2 3 3 4

1 2 2 3 3

1

2

A

B

1 C

قلم الجزائر
WWW.DZPEN.COM

2010

2011

3

900

	250	200	150	600
	100	120	80	300

1

2

3

4

5

4,5

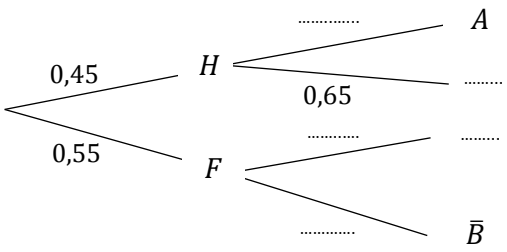
25% 45% 55%

35%

A F H

B

1



2

3

قلم الجزائر
WWW.DZPEN.COM

2012

4

45% A 30%
C B

A 25%
84% B 18%
C

A
B
C

R
A
B
C

1

$P(C \cap R) = 0,21$ 2

R $P(R)$ 3

$P_R(B)$ 4

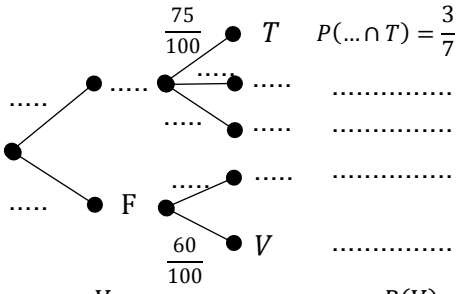
4

15 35

15% 75%
10%
60%

G
F
T
M
V

1



V $P(V)$ 2

$P_V(G)$ 3

4

2013

5

B A

6 4 A
3 B
7

1

A

B

B

A 2

B

0,42

4

150

40% 50
70%

1

$\frac{1}{150}$ ($\frac{2}{5}$ ($\frac{3}{4}$ (

2

0,21 (0,475 (0,24 (

3

0,3 (0,4 (0,15 (

4

$\frac{3}{10}$ ($\frac{12}{19}$ ($\frac{2}{75}$ (

قلم الجزائر
WWW.DZPEN.COM

2014

4

I

	12	25
	8	15

1

$\frac{8}{23}$ ($\frac{23}{60}$ ($\frac{1}{23}$ (

2

$\frac{8}{23}$ ($\frac{2}{15}$ ($\frac{2}{5}$ (

(II

x_i	1	2	3	4
p_i	0,2	0,4	0,1	0,3

1

1,25 (2,5 (1,12 (

B A 2

$P(A \cap B)$ $P(B) = 0,3$ ، $P(A) = 0,4$

0,75 (0,7 (0,12 (

4

6 U_3 U_2 U_1

U_1

U_2

U_3

1

U_3 2

3

4

U_3

2015

5

B A

$\bar{E}$ E

A

$\frac{1}{6}$ A

$\frac{3}{8}$ B

1

$\frac{2}{3}$ A

2

B

3

A

4

6

02 1

02 2

02 3

B A 4

$P_A(B) = 0.4$ $P(A) = 0.3$

$P(A \cap B) = 0.1$ $P(A \cap B) = 0.12$

$P(A \cap B) = 0.7$

B A 5

$P(B) = 0.4$ $P(A) = 0.3$

$P(A \cup B) = 0.58$ $P(A \cup B) = 0.7$

$P(A \cup B) = 0.12$

B A 6

$P(A \cup B) = 0.68$ $P(A) = 0.3$ $P_A(B) = 0.4$

$P(B) = 0.272$ $P(B) = 0.204$

$P(B) = 0.5$

قلم الجزائر
WWW.DZPEN.COM

4

C B A

B 50% A 20%

C

A 50%

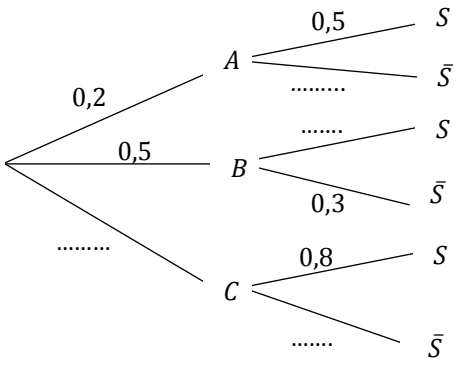
B 30%

C 80%

S

$\bar{S}$

1



2

$C \cap S$ $B \cap S$ $A \cap S$

3

B

4

500

	60	240
	120	80

H

F

$\bar{S}$ S

1

2

3

2017

قلم الجزائر
WWW.DZPEN.COM