

# Exercise 6

# Questions 1 et 2

On a :

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$$\blacktriangleright \Omega = \{1; 2; \dots; 14; 15\}$$

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►  $\Omega = \{1; 2; \dots; 14; 15\}$

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1.  $\mathbb{P}(A) = \frac{7}{15} \simeq 0,47$

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1.  $\mathbb{P}(A) = \frac{7}{15} \simeq 0,47$

2.  $\mathbb{P}(B) = \frac{6}{15} = \frac{2}{5} = 0,4$

## Question 3

▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$

▶  $B = \{10; 11; 12; 13; 14; 15\}$

On a :

▶  $\overline{A} = \{1; 3; 5; 7; 9; 11; 13; 15\}$

## Question 3

►  $A = \{2; 4; 6; 8; 10; 12; 14\}$

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On a :

►  $\bar{A} = \{1; 3; 5; 7; 9; 11; 13; 15\}$

donc  $\mathbb{P}(\bar{A}) = \frac{8}{15} \simeq 0,53$

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- ▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$
- ▶  $B = \{10; 11; 12; 13; 14; 15\}$

On a :

- ▶  $\overline{A} = \{1; 3; 5; 7; 9; 11; 13; 15\}$   
donc  $\mathbb{P}(\overline{A}) = \frac{8}{15} \simeq 0,53$
- ▶  $\overline{B} = \{1; 2; 3; 4; 5; 6; 7; 8; 9\}$

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- ▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$
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- ▶  $\overline{A} = \{1; 3; 5; 7; 9; 11; 13; 15\}$   
donc  $\mathbb{P}(\overline{A}) = \frac{8}{15} \simeq 0,53$
- ▶  $\overline{B} = \{1; 2; 3; 4; 5; 6; 7; 8; 9\}$   
donc  $\mathbb{P}(\overline{B}) = \frac{9}{15} = \frac{3}{5} = 0,6$

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▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$

▶  $B = \{10; 11; 12; 13; 14; 15\}$

On a :

▶  $A \cap B = \{10; 12; 14\}$

## Question 3

- ▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$
- ▶  $B = \{10; 11; 12; 13; 14; 15\}$

On a :

- ▶  $A \cap B = \{10; 12; 14\}$   
donc  $\mathbb{P}(A \cap B) = \frac{3}{15} = \frac{1}{5} = 0,2$

## Question 3

- ▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$
- ▶  $B = \{10; 11; 12; 13; 14; 15\}$

On a :

- ▶  $A \cap B = \{10; 12; 14\}$   
donc  $\mathbb{P}(A \cap B) = \frac{3}{15} = \frac{1}{5} = 0,2$
- ▶  $A \cup B = \{2; 4; 6; 8; 10; 11; 12; 13; 14; 15\}$

## Question 3

- ▶  $A = \{2; 4; 6; 8; 10; 12; 14\}$
- ▶  $B = \{10; 11; 12; 13; 14; 15\}$

On a :

- ▶  $A \cap B = \{10; 12; 14\}$   
donc  $\mathbb{P}(A \cap B) = \frac{3}{15} = \frac{1}{5} = 0,2$
- ▶  $A \cup B = \{2; 4; 6; 8; 10; 11; 12; 13; 14; 15\}$   
donc  $\mathbb{P}(A \cup B) = \frac{10}{15} = \frac{2}{3} \simeq 0,67$