

Calc. : **X**

A single fair die is rolled. Let A be the event “number 2” and B the event “even number”. Determine if A and B are independent. Justify your answer.

2 marks

Calc. : **X**

A candy is randomly selected from a paper box with 6 hard candies and 12 soft candies. If H is the event of getting a hard candy and S is the event of getting a soft candy, determine the following probabilities:

1. $P(H)$
2. $P(S)$
3. $P(H \cap S)$
4. $P(H \cup S)$

2 marks

2 marks

2 marks

2 marks

Calc. : X

In a group of 25 people, 14 like pizza and 16 like hamburger. One person likes neither pizza nor hamburger.

1. Represent the situation using a Venn diagram.

2 marks

What is the probability that a person randomly selected:

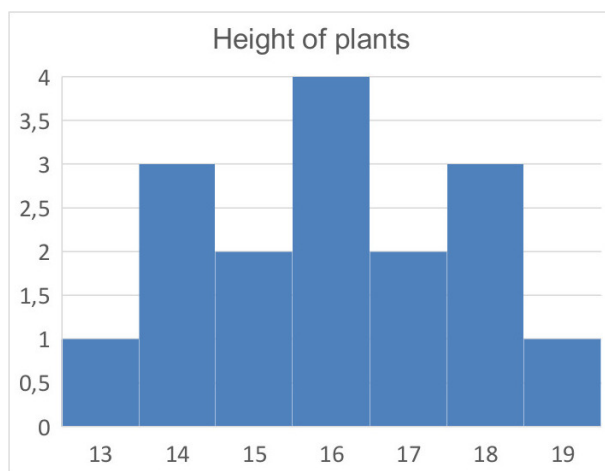
2. Likes pizza?
3. Likes pizza, knowing that he/she likes hamburger?

1 mark

2 marks

Calc. : **X**

The following histogram represents the height of the plants of the new garden.



1. Fill in the table below using the data from the histogram.

2 marks

height (cm)							
frequency							

- Determine the number of plants.
- Determine the mode.
- Determine the mean.
- Determine the median.

2 marks

2 marks

2 marks

2 marks

Exercise 5

Calc. : ✖

Given a cube of side 3 m:	
1. Draw the cube on paper.	3 marks
2. Determine the length of a face diagonal of the cube.	3 marks
3. Determine the length of a body diagonal of the cube.	3 marks
4. Determine the volume of the cube.	3 marks
5. Determine the surface of the cube.	3 marks