

QUESTION 1

(This question is worth 10 marks)

(10 marks)

Answer the following questions:

1. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three questions. The table is given below.

Question	Option 1	Option 2	Option 3
Q1	40	30	30
Q2	35	45	20
Q3	50	30	20

- 1.1 Calculate the probability that a person chosen at random will choose Option 1 for Q1 and Option 2 for Q2.
- 1.2 Calculate the probability that a person chosen at random will choose Option 1 for Q1 and Option 1 for Q2.
- 1.3 Calculate the probability that a person chosen at random will choose Option 1 for Q1 and Option 1 for Q3.
- 1.4 Calculate the probability that a person chosen at random will choose Option 1 for Q1 and Option 1 for Q2 and Option 1 for Q3.
- 1.5 Calculate the probability that a person chosen at random will choose Option 1 for Q1 and Option 1 for Q2 and Option 2 for Q3.
- 1.6 Calculate the probability that a person chosen at random will choose Option 1 for Q1 and Option 1 for Q2 and Option 3 for Q3.