

Subject 3

Please, don't write on the exam paper.

Customers at a supermarket pay cash, by cheque or credit card. The probability of a randomly selected customer paying cash is 0,64 and by cheque is 0,13.

All answers will be rounded if necessary to the nearest hundredth.

1. Determine the probability of a randomly selected customer paying by credit card.
2. Two customers are selected at random.
 - a) Find the probability of them both paying by credit card.
 - b) Find the probability of one paying by credit card and the other paying cash.
3. Three customers are selected at random.
 - a) Find the probability of all three paying cash.
 - b) Find the probability of one and one only paying by credit card.
 - c) Find the probability of one paying cash, one by cheque and one by credit card.
4. Three customers are selected at random.

Determine the probability that the first customer paid cash knowing that one and one only of the three customers paid by credit card.