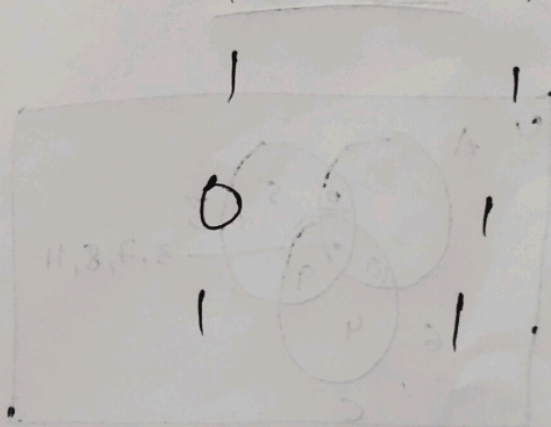


Customer-id	A Electronics	B Clothing	C Housing
1	1	0	1
2	1	1	0
3	1	1	1
4	0	0	1
5	0	0	0
6	0	0	0
7	0	1	1
8	1	1	1
9	0	1	1
10	1	1	1
11	1	1	1



1) find the customer atleast buying two products

2) find $A \cup B$?

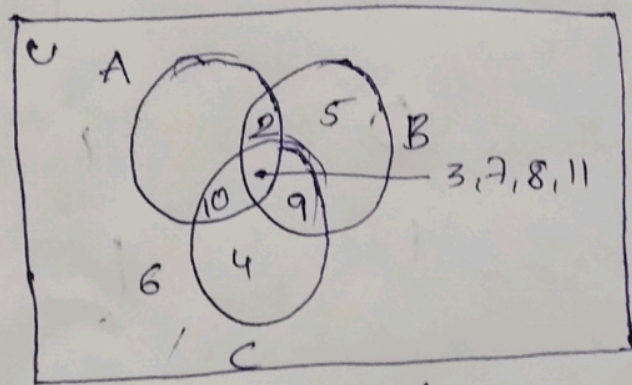
3) $A \cup B \cup C$

4) find the customers who are purchasing atleast 1 product, exactly 2 products and no products

5) The customers who are more likely to buy electronics and clothing.

6) The customer who purchased electronics what is the probability they also purchased clothing

Answers



1) At least 2 product

1, 2, 9, 10, 3, 7, 8, 11

2) $A \cup B$

1, 2, 5, 9, 10, 3, 7, 8, 11

3) $A \cup B \cup C$

1, 2, 3, 4, 5, 7, 8, 9, 10, 11

4) At least 1 product

1, 2, 3, 4, 5, 7, 8, 9, 10, 11

Exactly 2 products

1, 2, 9, 10

None At ALL

6

5) electronics (A) A clothing (B)

2, 3, 9, 10, 11

6) $P(\text{clothing, electronics})$

$$= \frac{P(A \cap B)}{1(A)}$$

$$= \frac{1}{3}$$