Q1: Choose which data mining task is suitable for the following scenario: first buy a digital camera, then buy large SD memory cards

1. Classification
2. Sequential pattern analysis
3. Association rule
4. Prediction

Q2: Direct application of frequent itemset mining is

1. Social Network Analysis
2. Market Basket Analysis
3. Outlier Detection
4. Intrusion Detection

Q3: If we know the support of itemset {a, b} is 10, which of the following numbers are the possible supports of itemset {a, b, c}?

1. 9
2. 10
3. 11
4. 12

Q4: When an association rule is called a strong association rule if it satisfies \_\_\_\_\_ support and \_\_\_\_\_ confidence

1. min, min
2. min, max
3. max, min
4. max, max

Q5:

Tid Items Bought

10 Ball, Nuts, Pen

20 Ball, Nuts, Pen, Coffee

30 Ball, Pen, Eggs

40 Ball, Nuts, Eggs, Milk

50 Nuts, Pen, Coffee, Eggs, Milk

Table 1: Transactions from a database

Given the transaction in Table 1 and min\_sup = 50%, how many frequent 3-itemsets are there?

1. 0
2. 1
3. 2
4. 3