

S No	Questions	Scenario 1
1	Case Study	GameCo's marketing team has noticed that puzzle game sales are down this year. The finance director wants a report on what's causing this drop in sales, so the marketing team reach out to the analysts for help.
2	Which type of analysis? Why?	This problem requires <b>Diagnostic analysis</b> to understand the significant decrease in sales records. Also, the finance director is more interested in the cause "Why have the sales of puzzle games decreased significantly?" It means the descriptive analysis has already been made.
3	The most suitable form of <b>variate analysis</b> and <b>type of statistics</b>	<b>Multivariate Analysis:</b> There could be multiple values to compare the number of gamers, game price, popularity, etc. <b>Descriptive statistics:</b> Summarizing the more extensive data set helps to interpret the sale values.
4.1	What information required to analyse problem?	Which regions data do I need to consider? How many years of past data should I consider for analysis? On which platform are the puzzle games published, and what is the cost compared to other games in the market?
4.2	What would the answers to these questions let you do that you couldn't otherwise?	It let me narrow down the search from the global data, and it helped me to save unnecessary time looking into other region sale data. The question asked to collect more information on the sale data, like the game's price and on which platform the game was published. This question helped me to understand the competing games and the platform used by the games.
S No	Questions	Scenario 2
1	Case Study	The sales team wants to know which games it should stock in each city in order to most effectively meet local customer demand. Shipping rates vary by location and this difference will need to be reflected in which games are recommended for which locations.
2	Which type of analysis? Why?	1. This requires <b>Prescriptive Analysis</b> to understand which game it should stock in each city to overcome the problem of overstocking or understocking to meet customer demand. 2. Already predicted the delay in shipping rate caused the problem out of stock. The problem is to forecast the customer demand by region.
3	The most suitable form of <b>variate analysis</b> and <b>type of statistics</b>	<b>Multivariate Analysis:</b> There could be multiple values to compare the number of gamers, price of the game, popularity of the game, genre etc. <b>Descriptive statistics:</b> are used to summarize the data
4.1	What information required to analyse problem?	1. Do my records have sufficient information, like daily sales information, inventory information? 2. Which cities require analytics on understocking and overstocking?? 3. Do my records contain shipping details? Is this records inbound shipping or outbound shipping?
4.2	What would the answers to these questions let you do that you couldn't otherwise?	The question helps me whether I have complete information to estimate stock details This lets me analyse only specific cities from the large data set. Shipping details provides how long it takes to stock,
S No	Questions	Scenario 3
1	Case Study	A GameCo executive is due to give a presentation at an upcoming gaming conference and they want to know how sales vary by month of the year.
2	Which type of analysis? Why?	The problem solved by <b>descriptive analysis</b> of past sales records to describe each month's variations in the year. The histogram drawn to understand distribution sale records in each month.
3	The most suitable form of <b>variate analysis</b> and <b>type of statistics</b>	<b>Univariate Analysis:</b> Only sales records are used to analyse <b>Descriptive statistics</b> used to summarise the data
4.1	What information required to analyse problem?	1. What are the monthly past sale records by region? 2. In which month Popular games released? 3. What are regional calendar days?
4.2	What would the answers to these questions let you do that you couldn't otherwise?	First question provides to create Histogram on sale data. The other two questions allowed me to analyse the number of sales in academy hours, in holidays, during the major festivals. Each regional calendar helped collect information to understand academy years, holidays, and festive seasons. Also to compare the sale rate in each seasons.
S No	Questions	Scenario 4
1	Case Study	The Olympic Games will take place in six months. GameCo's operations team wants to forecast how many sports games it will sell in the months before, during, and after the games so it can order the correct amount from the production facility.
2	Which type of analysis? Why?	GameCos operation team interested to forecast sale of sports game. It is likely to predict future sale by applying <b>Predictive Analysis</b> on the sales records.
3	The most suitable form of <b>variate analysis</b> and <b>type of statistics</b>	<b>Multivariate Analysis</b> is required to analyse the sale. <b>Inferential/Descriptive statistics</b> can help to predict the sale from previous Olympic games
4.1	What information required to analyse problem?	1. Do I need to consider a global sale or a regional sale? 2. Which sports players/games are influencer in the olympic games? 3. What is the total number of viewers and the age?

4.2	What would the answers to these questions let you do that you couldn't otherwise?	The questioned helped to compare the popularity of Olympics games and the numbers of sports games sold.
		The favourite players in the olympic sports helped to estimate before, after olympic the number of games sold.
		Which sports are viewed the most by age 'helped to understand the game that could be sold during the Olympic games. Each regional calendar helped collect information to understand academy years, holidays, and festive seasons.