

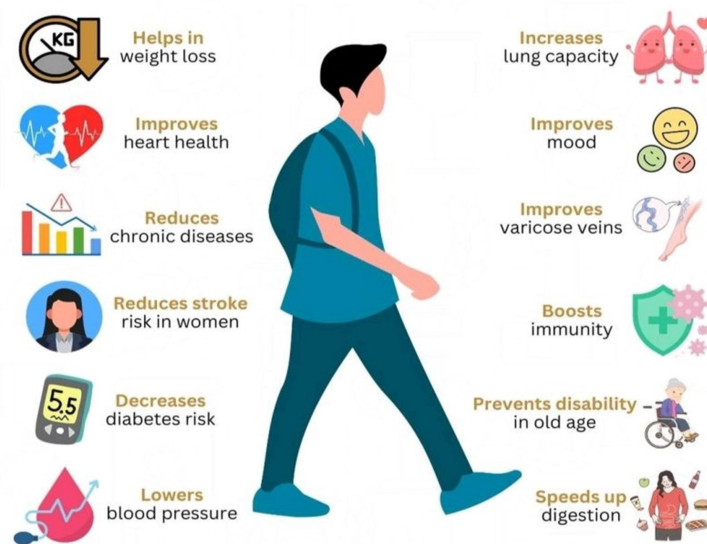
CASE STUDY ON DATA HANDLING

Sub-Topic: Mean, Median , Mode

Regular walking can significantly increase lung capacity, allowing you to take in more oxygen with each breath. According to a study published in the Journal of Cardiopulmonary Rehabilitation and Prevention, walking strengthens the respiratory muscles, improves ventilation, and enhances overall lung function.

Research conducted by the American Heart Association found that walking at least 10,000 steps a day can lower the risk of heart disease by up to 50%.

BENEFITS OF WALKING **10,000 STEPS**



After reading this article, Mr. Ghosh decided to spare atleast one hour from his daily hectic schedule for walking to lead a healthy lifestyle. He also started to monitor his steps through his smartwatch and regularly noted it down in his diary. His ultimate goal is to complete 10,000 steps everyday. The following chart represnts the count of total number of daily steps completed by him for the last fifteen days.

Day 1	6235 steps	Day 6	7310 steps	Day 11	6500 steps
Day 2	7310 steps	Day 7	5100 steps	Day 12	9620 steps
Day 3	5260 steps	Day 8	9500 steps	Day 13	6235 steps
Day 4	7120 steps	Day 9	6235 steps	Day 14	7310 steps
Day 5	2860 steps	Day 10	8250 steps	Day 15	7455 steps

Q1. Find the average number of daily steps completed by Mr. Ghosh for the last 15 days.

Q2. Find the range of the daily steps completed by Mr. Ghosh for the last 15 days.

Q3. On which day Mr.Ghosh was so close to reach his ultimate goal and by how many steps was he failed to reach it?

Q4. What was/were the mode of the given data ?

Q5. If we arranged the data of the last 15 days in an ascending order, then what would be the median of the given data?

Q6. To make the average daily steps count 10,000 of the given data, how many steps would have to be added on an average with each day's steps count?