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G.D.GOENKA PUBLIC SCHOOL

Subject: Mathematics (8th)

Date: 06-10-2021

Chapter 17 (Data and its Representation)

Exercise 17.1

(3) The following data shows the prices of mobile phones sold by a mobile shop. Prepare a frequency distribution table with overlapping class intervals.

₹5200, ₹6700, ₹2800, ₹3200, ₹9800, ₹14,000, ₹8900, ₹9500, ₹12,000, ₹13,600, ₹7800, ₹6900, ₹5600, ₹4500, ₹4200, ₹5400, ₹8600, ₹12,500, ₹14,800, ₹3200, ₹2500, ₹4300, ₹7000, ₹14,800, ₹4300, ₹5000, ₹2900, ₹3900, ₹16,900, ₹17,500, ₹5800, ₹3800, ₹2700, ₹4800, ₹9000, ₹11,000, ₹12000, ₹3000, ₹8000, ₹6000

Price of mobile (rupees)	Tally marks	Frequency
2000 – 6000		19
6000 – 10,000		11
10,000 – 14,000		5
14,000 – 18,000		5
Total		40

(4) The marks of 50 students are as follows.

48, 50, 38, 28, 19, 20, 37, 42, 49, 50, 50, 39, 29, 19, 20, 22, 23, 28, 32, 34, 45, 45, 32, 30, 28, 30, 31, 41, 21, 38, 37, 45, 46, 43, 39, 32, 33, 34, 33, 23, 23, 24, 28, 42, 34, 35, 36, 43, 42, 41

(i) Prepare a frequency distribution table.

Marks	Tally marks	Frequency
10 – 20		2
20 – 30		13
30 – 40		19
40 – 50		13
50 – 60		3
Total		50

Write Q3 and Q4 in your mathematics notebook.