

**Education as a Service (EaaS)****Sample Question Paper - SET 1** +91-7869553517 |  [www.mathlove.in](http://www.mathlove.in)

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<b>Class</b>	X	<b>Subject</b>	Mathematics (041)
<b>Chapter</b>	13 - Statistics	<b>Time Allowed</b>	25 Minutes
<b>Maximum Marks</b>	7	<b>Date</b>	_____

**GENERAL INSTRUCTIONS:**

1. This question paper contains **3 questions** from Chapter 13 - Statistics.
2. All questions are compulsory.
3. Section A: Questions 1-2 carry 1 mark each.
4. Section B: Question 3 carries 5 marks.
5. Use of calculator is not permitted.
6. Show all steps of calculation clearly.
7. Use  $\pi = 22/7$  unless stated otherwise.

**HOW TO SUBMIT:**

1. Solve this question paper in your notebook or on loose sheets.
2. Clearly write your **Name, Roll Number, School Name, and Date** on the first page.
3. Upload your solved paper at: **[www.mathlove.in](http://www.mathlove.in)**
4. Check your **detailed report card** after evaluation.
5. For queries, WhatsApp: **+91-7869553517**

**SECTION A - 1 MARK QUESTIONS (2 × 1 = 2 Marks)**

**Q1.** The following distribution shows the daily pocket allowance given to children of a locality. If the mean pocket allowance is ₹18, find the missing frequency  $f$ .

Daily pocket allowance (in ₹)	11-13	13-15	15-17	17-19	19-21	21-23	23-25
Number of children	7	6	9	13	$f$	5	4

[1]

**Q2.** The median of the following data is 525. Find the missing frequency  $x$ :

Class Interval	Frequency
0-100	2
100-200	5
200-300	$x$
300-400	12
400-500	17
500-600	20
600-700	15
700-800	9
<b>Total</b>	<b>100</b>

[1]

**SECTION B - 5 MARKS QUESTION**

**Q3.** The following distribution shows the daily expenditure on food of 30 households in a locality:

Daily expenditure (in ₹)	Number of households
100-150	4
150-200	5
200-250	12
250-300	2
300-350	7

Find:

- (i) The mean daily expenditure on food by a suitable method. (2 marks)
- (ii) The mode of the data. (2 marks)
- (iii) If the median of the above data is ₹212.50, verify the empirical relationship between the three measures of central tendency. (1 mark)

[5]

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