

JEE MAIN STATISTICS — MEAN DEVIATION ABOUT MEAN AND MEDIAN — PYQS

Max. Marks: 20
Questions: 5

Section A (MCQ) — 5 questions

Q.1 The mean deviation about the mean for the data

x_i	5	7	9	10	12	15
f_i	8	6	2	2	2	6

is equal to:

[JEE Main 2026 (Online) 5th April Morning Shift]

- (1) $\frac{40}{13}$ (2) $\frac{42}{13}$ (3) $\frac{44}{13}$ (4) $\frac{46}{13}$

 Scan or tap for the
full solution


Q.2 Suppose that the mean and median of the non-negative numbers 21, 8, 17, a, 51, 103, b, 13, 67, ($a > b$), are 40 and 21, respectively. If the mean deviation about the median is 26, then $2a$ is equal to :

[JEE Main 2026 (Online) 4th April Morning Shift]

- (1) 109 (2) 117 (3) 161 (4) 131

 Scan or tap for the
full solution


Q.3 The mean and variance of 10 observations are 9 and 34.2, respectively. If 8 of these observations are 2, 3, 5, 10, 11, 13, 15, 21, then the mean deviation about the median of all the 10 observations is

[JEE Main 2026 (Online) 28th January Morning Shift]

- (1) 7 (2) 4 (3) 5 (4) 6

 Scan or tap for the
full solution


Q.4 If the mean deviation about the median of the numbers $k, 2k, 3k, \dots, 1000k$ is 500, then k^2 is equal to :

[JEE Main 2026 (Online) 22nd January Evening Shift]

- (1) 1 (2) 16 (3) 9 (4) 4

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full solution


Q.5 Let the mean and the standard deviation of the observations 2, 3, 3, 4, 5, 7, a, b be 4 and $\sqrt{2}$ respectively. Then the mean deviation about the mode of these observations is :

[JEE Main 2025 (Online) 4th April Evening Shift]

- (1) $\frac{1}{2}$ (2) $\frac{3}{4}$ (3) 1 (4) 2

 Scan or tap for the
full solution


ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	3	4	3	4	3						