# Worksheet: Statistics

Bihar State Board · Class 11 · Mathematics · 8 questions · 33 marks

| Name: _____ | Date: _____ | Score: _____ / 33 |
|---|---|---|

**Q1.** Find the range of the data: 12, 45, 8, 33, 27, 51, 19. *[1 mark]*

**Q2.** Find the mean deviation about the mean for: 2, 4, 5, 7, 8. *[3 marks]*

**Q3.** Find the mean deviation about the median for: 10, 12, 8, 15, 9, 14, 11. *[4 marks]*

**Q4.** Find the variance and standard deviation of: 6, 8, 10, 12, 14. *[4 marks]*

**Q5.** Find the variance of the first 6 natural numbers. *[5 marks]*

**Q6.** Using the step-deviation method with assumed mean A=25 and h=10, find the mean and variance for: xi = 5,15,25,35,45 with fi = 3,7,10,6,4. *[6 marks]*

**Q7.** The mean and standard deviation of 10 observations are 12 and 3 respectively. If every observation is multiplied by 4, find the new mean and new standard deviation. *[4 marks]*

**Q8.** The mean and standard deviation of 15 observations were found to be 12 and 3. Later, an observation recorded as 10 was found to actually be 16. Find the corrected mean and standard deviation. *[6 marks]*