

UNIT 11 EXERCISES 11-15

STATS MEAN

- 2004B 11. All the students in an algebra class took a 100-point test. Five students scored 100, each student scored at least 60, and the mean score was 76. What is the smallest possible number of students in the class?
- (A) 10 (B) 11 (C) 12 (D) 13 (E) 14

- 2014B 11. A list of 11 positive integers has a mean of 10, a median of 9, and a unique mode of 8. What is the largest possible value of an integer in the list?
- (A) 24 (B) 30 (C) 31 (D) 33 (E) 35
- 2007B 12. A teacher gave a test to a class in which 10% of the students are juniors and 90% are seniors. The average score on the test was 84. The juniors all received the same score, and the average score of the seniors was 83. What score did each of the juniors receive on the test?
- (A) 85 (B) 88 (C) 93 (D) 94 (E) 98

- 1999 14. Four girls — Mary, Alina, Tina, and Hanna — sang songs in a concert as trios, with one girl sitting out each time. Hanna sang 7 songs, which was more than any other girl, and Mary sang 4 songs, which was fewer than any other girl. How many songs did these trios sing?
- (A) 7 (B) 8 (C) 9 (D) 10 (E) 11
- 2002A 15. The mean, median, unique mode, and range of a collection of eight integers are all equal to 8. The largest integer that can be an element of this collection is
- (A) 11 (B) 12 (C) 13 (D) 14 (E) 15
- 2007A 15. The set $\{3, 6, 9, 10\}$ is augmented by a fifth element n , not equal to any of the other four. The median of the resulting set is equal to its mean. What is the sum of all possible values of n ?
- (A) 7 (B) 9 (C) 19 (D) 24 (E) 26