

Distribution

- Mrs. Walter gave an exam in a mathematics class of five students. She entered the scores in random order into a spreadsheet, which recalculated the class average after each score was entered. Mrs. Walter noticed that after each score was entered, the average was always an integer. The scores (listed in ascending order) were 71, 76, 80, 82, and 91. What was the last score Mrs. Walter entered?
(A) 71 (B) 76 (C) 80 (D) 82 (E) 91
- The mean of a set of five different positive integers is 15. The median is 18. The maximum value of the largest of these five integers is
(A) 19 (B) 24 (C) 32 (D) 35 (E) 40
- Gage skated 1 hr 15 min each day for 5 days and 1 hr 30 min each day for 3 days. How long would he have to skate the ninth day in order to average 85 minutes of skating each day for the entire time?
(A) 1 hr (B) 1 hr 10 min (C) 1 hr 20 min (D) 1 hr 40 min
(E) 2 hr
- 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 in this collection:
(A) 11 (B) 12 (C) 13 (D) 14 (E) 15
- Blake and Jenny each took four 100-point tests. Blake averaged 78 on the four tests. Jenny scored 10 points higher than Blake on the first test, 10 points lower than him on the second test, and 20 points higher on both the third and fourth tests. What is the difference between Jenny's average and Blake's average on these four tests?
(A) 10 (B) 15 (C) 20 (D) 25 (E) 40
- The numbers $-2, 4, 6, 9, 12$ are rearranged according to these rules:
 - The largest isn't first, but it is one of the first three places.
 - The smallest isn't last, but it is in one of the last three places.
 - The median isn't first or last.What is the average of the first and last numbers?
(A) 3.5 (B) 5 (C) 6.5 (D) 7.5 (E) 8