GMAT

Quant Section Test
[RANGE,SD & ND]
- Questions

1. If M is a set of integers, what is the standard deviation of set M?

(1) Median of set M is 15.

(2) Set M is consecutive and it contains 29 terms.

A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
D. Each statement alone is sufficient to answer the question.
E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

2. A certain college conducted a survey on 200 students heights. Was the range of the surveyed heights for these students greater than 40cms?

(1) 120 students' heights were between 130cms to 160cms

(2) 80 students' heights were between 165cms and 180cms.

A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
D. Each statement alone is sufficient to answer the question.
E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

3. A certain team has conducted a survey among children to determine how many chocolates were eaten by 100,000 children during a one-year period. The data indicate that the number of chocolates eaten is approximately normally distributed According to this data, approximately how many of the surveyed children ate more than 50 chocolates during the course of the year?

(1) Mean number of chocolates ate by children during the course of the year is 40.

(2) There was a standard deviation of 5 chocolates eaten by each child.

A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
D. Each statement alone is sufficient to answer the question.
E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

4. Median of set of 15 different integers is 8 and the range is 20. What is least possible integer that could be in this set?

A. 5
B. 1
C. 0
D. -1
E. -5

5. There were 600 students who appeared for an Aptitude exam. The marks of the students were normally distributed in which mean was 60 and exactly 12 students received a score of 96 or higher. If the bottom 16% of the students failed the test, find the score at or below which students have failed the test?

A. 42
B. 50
C. 55
D. 58
E. 60