GMAT

Quant Section Test
[LINEAR AND QUADRATIC EQUATIONS]
- Questions

1. There are 12 chocolates that are distributed equally to your friends such that the number of chocolates per person is one more than the number of friends. How many friends are there?
   A. 3
   B. 4
   C. 5
   D. 6
   E. None of the above

2. Melvin takes a physics test which contains 30 questions. Each correct answer will worth 5 points, each incorrect answer will worth -3 points and each blank questions will worth 0 points. If he scores a total of 63 points, which of the following could be the number of questions that he answers correctly?
   A. 17
   B. 18
   C. 20
   D. 22
   E. 25

3. Nicolas convinced x colleagues to donate \$500 each to his old age home, and then each of these x colleagues convinced x more member to donate \$500 each to Nicolas's old age home. If everyone donated only once and if there were no other donations, what was the value of x?
   (1) The first x members donated $\frac{1}{16}$ of the total amount donated.
   (2) The total amount donated was 120000.

   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. If $4a + 3b = 7$, what is the value of c?
   (1) $2a + b = 1$
   (2) $2a + 2b = c - 4$

   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.

5. If p is a positive integer, is the value of p equal to 1?
   (1) $\frac{r}{p} = r$
   (2) $p^2 = \sqrt{p}$

   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.