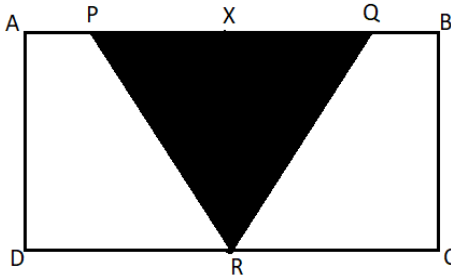# GMAT QUANT
[DATA SUFFICIENCY]
- Questions

1. A student committee of 2 students has to be formed from a group of 8 students which includes some girls and rests are boys. If "X" is the probability that both the selected students are boys, is $X > \frac{1}{4}$?
   (1) More than 45% of the students are boys.
   (2) The probability that both the selected students will be girls is more than 20%.

   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. Of the 90 houses in a certain village A, 55 own a balcony. How many of the houses in the village A have a lawn?
   (1) 35 of the houses in the village A own a balcony but do not have a lawn.
   (2) The number of houses in the village A that have a balcony and a lawn is equal to the number of houses in the village A that have neither a balcony nor a lawn.

   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.
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3. If p, q, r, s and t are integers and $x = 4^p 9^q$ and $y = 4^r 9^s 5^t$, is $\frac{x}{y}$ a terminating decimal?
   (1) $p > r$
   (2) $q < s$

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   B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
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4. Is $ > 0$?
   (1) $|k + 4| < 5$
   (2) $|k - 4| < 5$

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   B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
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   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. Norman and Andrew can design a room in 9 hours working together continuously. What is the time taken by Andrew to design the room alone?
   (1) Working continuously, Norman takes 12 hours to design the room alone.
   (2) Working continuously, Andrew takes 12 hours to design one third of the room.

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   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.

6. What is the difference of the highest and lowest integer salaries in millions of the five people in a company?
   (1) The mean and the median of the five salary figures are 5 million.
   (2) Mode and the Highest salary among the five people is 8 million.

   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.

7. If x represents the centre of a circular clock and the point of the clock hand is on the circumference of the circle, does the shaded sector of the clock represent more than 10 minutes?
   (1) The clock hand has a length of 20.
   (2) The area of the sector is more than 66π.
   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.

8. If Set S = {1, a, b} and a, b is greater than or equal to 1 and a ≤ b, what is the value of "b"?
   (1) The standard deviation of Set S is 0.
   (2) The range of Set S is 0.
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   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.
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   E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

9. "S" is a sequence whose terms were a_1, a_2, a_3, …a_n. What is the value of $a_{11}-a_{10}$?
   (1) Difference of the first two terms of the Sequence S (a_1 and a_2) is 20.
   (2) In the above sequence S, each term after the first is equal to the average of the preceding term and the following term.

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10.

The above figure ABCD is a rectangle. Points X and R are the midpoints of sides AB and CD respectively. Then area of the triangle PQR is what fraction the area of the rectangle ABCD?

   (1) Length and breadth of the rectangle ABCD is 12 and 10 respectively.
   (2) In the above figure above point P is the midpoint of line segment AX and point Q is the midpoint of line segment XB.
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   B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
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