

GMAT Data Sufficiency Practice Test 6

Is $x > 10$?

(1) $x > 9$

(2) $x > 11$

1. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
2. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
3. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
4. EACH statement ALONE is sufficient.
5. Statements (1) and (2) TOGETHER are not sufficient.

If $y = x^2 - 6x + 9$, what is the value of x ?

(1) $y = 0$

(2) $x + y = 3$

6. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
7. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
8. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
9. EACH statement ALONE is sufficient.
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Is $xy < 1$?

1) $x^2 + y^2 < 1$

2) $x + y < 1$

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A rectangular solid has length, width, and height of L cm, W cm, and H cm, respectively. If these dimensions are increased by x%, y%, and z%, respectively, what is the percentage increase in the total surface area of the solid?

- (1) L, W, and H are in the ratios of 5:3:4.
- (2) $x = 5$, $y = 10$, $z = 20$

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P and Q are prime numbers less than 70. What is the units digit of $P \cdot Q$?

- (1) Units' digit of $(P^{4k+2}) - Q$ is equal to 7, where k is a positive integer.
- (2) Units digit of the expression $[PQ + Q(Q+1) - Q^2]$ is a perfect cube

- (A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- (B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- (C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- (D) EACH statement ALONE is sufficient.
- (E) Statements (1) and (2) TOGETHER are not sufficient.

By how many dollars was the price of a certain portable tape recorder reduced during a sale?

- (1) During the sale, the price of the tape recorder was reduced by 25 percent.
- (2) The price of the tape recorder after the reduction was \$36.

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Mr. Alex usually starts at 9:00am and reaches his office just in time, driving at his regular speed. Last Wednesday, he started at 9:30am and drove 25% faster than his usual speed. Did he reach the office in time?

- (1) Last Monday, he started to his office 20 minutes early, drove 20% slower than his regular speed, and reached his office just in time.
 (2) Last Tuesday, he started to his office 10 minutes early, and reached the office 10 minutes early driving at his regular speed.

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What is the volume of a certain rectangular solid?

- (1) Two adjacent faces of the solid have areas 15 and 24, respectively.
 (2) Each of two opposite faces of the solid has area 40.

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w, x, y, and z are integers. If $w > x > y > z > 0$, is y a common divisor of w and x?

(1) $\left(\frac{w}{x} = z^{-1} + x^{-1}\right)$

(2) $(w^2 - wy - 2w = 0)$

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What is the SD of a given set of numbers whose average is 5?

- (1) None of the numbers are greater than this Average
 (2) The Standard deviation is 0 when value of each of the given number is increased by 7

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