GMAT Data Sufficiency Practice Test 3

- **Is a < b?**

1. $a^b < b^a$
2. $\frac{a}{b} > 1$

- Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- EACH statement ALONE is sufficient.
- Statements (1) and (2) TOGETHER are NOT sufficient.

- **Is | a | > | b |?**

1. $\frac{1}{(a-b)} > \frac{1}{(b-a)}$
2. $a + b < 0$

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- EACH statement ALONE is sufficient.
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- **What is the 6th term of the Arithmetic sequence?**
    1. The sum of the 6th to the 12th term of the sequence is 77.
    2. The sum of the 2nd to the 10th term of the sequence is 108.

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- **Is $a_3 > a_2$**
    1. 1
    2. a
    3. 1$^{\square} > a$
    4. $a_5 > a_3$

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- **Line L is perpendicular to line K whose equation is 3y = 4x + 12; Lines L and K intersect at (p, q).**
    1. x intercept of Line L is less than that of Line K
    2. y intercept of Line L is less than that of Line K

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- **Is | a | > a?**

1. $a^2 < a$
2. $\frac{a}{2} > \frac{2}{a}$

- Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
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- **Does the line x + y = 6 intersect or touch the circle C with radius 5 units?**
    1. Center of the circle lies in the third quadrant.
    2. Point (-4, -4) does not lie inside the circle.

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- **Is 'a' positive?**
    1. a - b > 0
    2. 2a - b > 0

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- **If x and y are positive integers, is y odd?**
    1. x is odd.
    2. xy is odd.

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- **Is 'b' the median of 3 numbers a, b, and c?**

1. $\frac{b}{a} = \frac{c}{b}$
2. $ab < 0$

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- **EACH statement ALONE is sufficient.**
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- **Is the slope of the line that passes through the point (p, q) positive?**
    1. $p, q > 0$
    2. The x-intercept of the line is k, such that $k > p$.

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- EACH statement ALONE is sufficient.
- Statements (1) and (2) TOGETHER are NOT sufficient.

- **Is $a^n > b^n$?**
    1. $a > b$
    2. $ab < 0$

- Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

- Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
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