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If x is a positive integer, what is the least common multiple of x , 6, and 9 ?

- (1) The least common multiple of x and 6 is 30.
 - (2) The least common multiple of x and 9 is 45.
-
- ☐ 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.

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Is $x < y$?

(1) $2x < 3y$

(2) $xy > 0$

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

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If $m = \frac{9}{25}$, $w = \frac{15}{32}$, and $m + w + c = 1$, which of the following gives the values of m , w , and c in increasing order?

☒ c, m, w ☐ c, w, m ☐ m, w, c ☐ w, c, m ☐ w, m, c [Help](#)[End Exam](#)[Review Screen](#)[Next](#)

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In a certain conference room each row of chairs has the same number of chairs, and the number of rows is 1 less than the number of chairs in a row. How many chairs are in a row?

- (1) There is a total of 72 chairs.
- (2) After 1 chair is removed from the last row, there is a total of 17 chairs in the last 2 rows.

- ☐ 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.

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If a certain sample of data has a mean of 20.0 and a standard deviation of 3.0, which of the following values is more than 2.5 standard deviations from the mean?

☒ 12.0☐ 13.5☐ 17.0☐ 23.5☐ 26.5[Help](#)[End Exam](#)[Review Screen](#)[Next](#)

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If M is a finite set of negative integers, is the total number of integers in M an odd number?

(1) The product of all the integers in M is odd.

(2) The product of all the integers in M is negative.

☐ 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.

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I would be very grateful if people provided explanations for the attached GMATPrep problems. The official answer is the option that is highlighted in blue with a square.

Thank you in advance.