



GMAT

Quant Section Test [NUMBER THEORY] - Questions

1. If r is a positive integer, then what is the remainder when 138^{13r+4} is divided by 10?
- 1
 - 2
 - 4
 - 6
 - 8

2. If the expression $\sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}}$ extends to an infinite number of roots and converges to a positive number k , then approximately what is the value of k ?
- 1
 - 3
 - $5 + \sqrt{5}$
 - $5 + \sqrt{6}$
 - $5\sqrt{6}$

3. If a , b and c are integers, is a even?

- $15^a = 9^b 25^c$
- $4^{a+5} = 64^{b+1}$

- Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
- Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
- Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
- Each statement alone is sufficient to answer the question.
- Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

4. Is m a multiple of 588?

- m is a multiple of 21
- m is a multiple of 84

- Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
- Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
- Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
- Each statement alone is sufficient to answer the question.
- 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 two digit prime number, what is the value of p ?
- (1) When p is divided by 4, the remainder is 3.
(2) p is 2 more than multiple of 7.
- 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.

BYJU'S - GMAT

Plot No.23, Indraprastha Equinox, 100 Feet Rd, Venkappa Garden,
Koramangala, Bengaluru, Karnataka 56009

☎ 088845 44444 ✉ gmtat@byjus.com 🌐 <https://byjus.com/gmat>

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