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1

ExamView

Based on the pattern, what are the next two terms of the sequence? $5, 10, 15, 20, \ldots$

100, 500

В

25, 500

C. 25, 30

D.

30, 35

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ExamView

What conjecture can you make about the tenth term in the pattern A, B, A, C, A, B, A, C?

A. The tenth term is A.

C. The tenth term is C.

B. The tenth term is B.

D. There is not enough information.

There is not enough information

ExamView 3

Based on the pattern, what is the next figure in the sequence?

OV ADADOV ADAD

C.

D.

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ExamView

practicing for a week, he could type 30 words per minute. After two weeks he could type 33 words per minute. Based on this pattern, predict how fast Alfred will be able to type after 4 weeks of Alfred is practicing typing. The first time he tested himself, he could type 27 words per minute. After practice.

A. 39 words per minute

36 words per minute

р. 33 words per minute 43 words per minute

2

ExamView



What is a counterexample for the conjecture?

Conjecture: The product of two positive numbers is greater than the sum of the two numbers.

Conjecture: Any number that is divisible by 3 is also divisible by 6.

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Ŭ. 24

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What is a counterexample for the conjecture?

- 3 and 5
- A counterexample exists, but it is not shown above.
- 2 and 2
- There is no counterexample. The conjecture is true.



Which statement is the Law of Detachment?

- A. If $p \rightarrow q$ is a true statement and q is true, then p is true.
- If $p \rightarrow q$ is a true statement and p is true, then q is true.
- If $p \to q$ and $q \to r$ are true, then $p \to r$ is a true statement
- If $p \to q$ is a true statement and q is true, then $q \to p$ is true.

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If there is a storm, then there is thunder. Use the Law of Syllogism to draw a conclusion from the two given statements.

If there is thunder, Li's dog is under her bed.

- A. There is a storm.
 B. Li's dog is under her bed.
 C. If there is not a storm, Li's dog is not under her bed.
 D. If there is a storm, then Li's dog is under her bed. If there is not a storm, Li's dog is not under her bed.

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