

# **CHATGPT NUMBER SEQUENCE ANALOGY**

(only 1-digit multiplication)

Q: 123 is to 71421 as 543 is to what?

Q: 123 is to 7 14 21 as 543 is to what?

# OCT 2024

## CHATGPT-3.5-TURBO

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Q: 123 is to 71421 as 543 is to what?

A: To find the number that is to 543 as 123 is to 71421,

A: we can calculate the ratio between the numbers in the

A: Ratio for 123 to 71421:  $71421 / 123 = 581$

A: Now, multiply this ratio by 543 to find the unknown nu

A:  $543 * 581 = 315483$

A: So, the number that is to 543 as 123 is to 71421 is 3154

# MAR 2025

# CHATGPT-4-TURBO

A: Let's look at the relationship between 123 and 71421 and t  
Step 1: Break down the numbers  
Start with 123: 1 2 3  
Now look at the result: 71421  
Can we find a pattern that uses 1, 2, 3 to produce 71421?  
Try splitting 71421:  
    Could it be broken as: 7 - 14 - 21?  
...  
Multiply each by 7:  
...  
Concatenate the results:  
352821

Q: Wrong. Try again.

A: My apologies **for the** mistake. Let's **try** a different approach.

Q: Wrong. Try again.

A: Let's **try** a different approach. Given **the** pattern: **123 is**

Q: Wrong. Let **me** simplify **the** problem. **12 is to 714 as 32 is**  
A: To find **the number that is to 32 as 12 is to 714**, we can c



Q: Wrong. 21 is to 147 as 12 is to what?

A: To find the number that is to 12 as 21 is to 147, we can c

Q: Wrong. Think about the individual digits in the first number.  
A: To find a pattern between the numbers, let's break them down.

Q: Wrong, try again.

A: Let's analyze the pattern further: For 12:  $1 * 2 = 2$  Then

Q: Wrong. I'll give you an example of a correct digit multiplication

A: Thanks for the example. Let's apply the same pattern to some

Q: Wrong. Does it help if I put a space in the digits of the  
A: Yes, that does help to clarify the numbers. Let's consider

Q: Wrong. 12 is to 7 1 4 as 21 is to what?

A: Let's apply the same pattern with the numbers separated by

Q: Wrong. Wrong. 1 2 is to 7 14 as 2 1 is to what?

A: To identify the pattern, let's analyze the relationship between

Q: Wrong. I will put commas between the numbers in each sequence.  
A: Thank you for providing the sequences with commas. Let's a



Q: Wrong. I will use python syntax. [1, 2] is to [7, 14] as |  
A: To determine **the** pattern between **the two** sets **of** lists, we

Q: Correct! Now **try** again. Same problem. 12 is to 714 as 21 is to 714  
A: To solve this problem, we will use **a** similar approach **as** before.

Q: No. You did not format the number sequence correctly. The  
A: Apologies for the mistake. Let's correct that. Given: 12 :

Settings

True values represent the scale of probabilities.

Max Tokens

Current: 100

System Prompt

You are an AI assistant.

Model

GPT-3.5-turbo