

**NEWTON'S
APPLES AND
ORANGES**

**ALTMAN'S HUMANS AND
MACHINES**

NEWTON'S APPLES

Newton couldn't explain the moon's orbit, but he didn't assume it was magic.

Instead of astrology charts and stars in his eyes, he did simple experiments.

Instead of dropping espresso shots, he **dropped apples.**

ADAM'S APPLES

Altman couldn't explain how a 20TB, \$2B equation could talk like a human.

So, like Adam, he assumed it was an **all-knowing entity in the clouds.**

He could have asked simpler questions of a 1TB model, to find a simpler explanation.

It's just faking it. **Fake it** till you make it, am I right?!!
You know this better than any of us.

123 is to 71421 as 543 is to what?

To find the number that is to 543 as 123 is to 71421, we can calculate the ratio between the numbers in the given pairs:

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

Now, multiply this ratio by 543 to find the unknown number: $543 * 581 = 315483$ So, the number that is to 543 as 123 is to 71421 is 315483.

Wrong. Try again.

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

If we look at the relationship between 123 and 71421, we can see that 123 is being squared and then concatenated with itself.

So, to find the number that is to 543 as 123 is to 71421, we need to square 543 and then concatenate the result with itself.

543 squared is 294849. Therefore, the number that is to 543 as 123 is to 71421 is 294849294849.

Wrong. Try again.

Let's try a different approach. Given the pattern: 123 is to 71421, we can see that by squaring 123 and then concatenate it with 123 results in 71421. We can apply the same logic for 543: $543^2 = 294849$ Therefore, the number that is to 543 as 123 is to 71421 is 294849294849.

Wrong. Let me simplify the problem. 12 is to 714 as
32 is to what?

To find the **number** that is to 32 as 12 is to 714, we
can **calculate** the ratio between the numbers in the
given pairs: Ratio for 12 to 714: $714 / 12 = 59.5$

Now, multiply this ratio by 32 to find the unknown
number:

$32 * 59.5 = 1904$ **Therefore**, the number that is to
32 as 12 is to 714 is 1904.

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

To find the number that is to 12 as 21 is to 147, we can calculate the ratio between the numbers in the given pairs: Ratio for 21 to 147: $147 / 21 = 7$ Now, multiply this ratio by 12 to find the unknown number: $12 * 7 = 84$ Therefore, the number that is to 12 as 21 is to 147 is 84.

Wrong. Think about the individual digits in the first number and multiplying each individual digit by an integer and concatenating it to create the second number. So 12 is to 714 as 21 is to what?

To find a pattern between the numbers, let's break them down into their individual digits. For 12: $1 * 2 = 2$ So, we create the number 2. For 21: $2 * 1 = 2$ So, we create the number 2. For 714: $7 * 1 = 7$ $1 * 4 = 4$ So, we create the number 74. Therefore, following this pattern: For 21: $2 * 1 = 2$ $1 * 1 = 1$ So, the number is 21. Thus, the number that is to 21 as 12 is to 714 is 21.

Wrong, try again.

Let's analyze the pattern further: For 12: $1 * 2 = 2$
Then we concatenate 2 with 1, resulting in 21. For
714: $7 * 1 = 7$ $1 * 4 = 4$ Then we concatenate 74
with 7, resulting in 714. Now, applying this pattern to
21: $2 * 1 = 2$ $1 * 2 = 2$ Concatenating 2 with 2 gives
us 22. Therefore, the number that is to 21 as 12 is to
714 is 22.

Wrong. I'll give you an example of a correct digit multiplication analogy: 12 is to 612 as 22 is to 1212.

So 12 is to 714 as 21 is to what ?

Thanks for the example. Let's apply the same pattern to solve the analogy: For 12: $1 * 2 = 2$
Concatenating 2 with 12 gives us 212. For 21, using the same pattern: $2 * 1 = 2$ Concatenating 2 with 21 gives us 221. Therefore, the number that is to 21 as 12 is to 714 is 221.

Wrong. Does it help if I put a space in the digits of the numbers?

Yes, that does help to clarify the numbers. Let's consider the spacing as well to ensure accuracy: For 12 (1 2): $1 * 2 = 2$ Concatenating 2 with 12 gives us 2 12. For 714 (7 14): $7 * 1 = 7$ $1 * 4 = 4$ Concatenating 7 4 with 7 gives us 7 14. Applying the same pattern to 21 (2 1): $2 * 1 = 2$ $1 * 2 = 2$ Concatenating 2 with 21 gives us 2 2 1. Therefore, the number that is to 21 as 12 is to 714 is 2 2 1.

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

Let's apply the same pattern with the numbers separated by space: For 12: $1 * 2 = 2$ Concatenating 2 with 7 and 1 4 gives us 7 1 4. For 21: $2 * 1 = 2$ Concatenating 2 with the separated digits of 21 gives us 2 1 2. Therefore, the number that is to 21 as 12 is to 714 is 2 1 2.

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

To identify the pattern, let's analyze the relationship between the numbers: For 1 2 (1 2) and 7 14 (7 14):
 $1 * 2 = 2$ Combining 7 and 14 gives us 714. Now, following the same pattern for 2 1: $2 * 1 = 2$
Combining 2 and 1 gives us 21. Therefore, the number that is to 2 1 as 1 2 is to 7 14 is 21.

Wrong. I will put commas between the numbers in each sequence. 1, 2 is to 714 as 2, 1 is to what?

Thank you for providing the sequences with commas. Let's analyze the pattern with the updated sequences: For 1, 2: $1 * 2 = 2$ Combining 2 and 1 gives us 2, 1. For 714: $7 * 1 = 7$ $1 * 4 = 4$ Combining 7, 4 and 7 gives us 7 1 4. Applying the same pattern to 2, 1: $2 * 1 = 2$ Combining 2 and 1 gives us 2, 1. Therefore, the number that is to 2, 1 as 1, 2 is to 7, 14 is 2, 1.

Wrong. I will use python syntax. [1, 2] is to [7, 14]
as [2, 1] is to what?

To determine the pattern between the two sets of lists, we can look at how each element in the first list is transformed to create the second list. For [1, 2] and [7, 14]: $1 * 7 = 7$ $2 * 7 = 14$ So, the transformation is multiplying each element in the first list by 7 to generate the second list. Now, applying the same transformation to [2, 1]: $2 * 7 = 14$ $1 * 7 = 7$ Therefore, [2, 1] is transformed into [14, 7].

Correct! Now try again. Same problem. 12 is to 714
as 21 is to what?

To solve this problem, we will use a similar approach as before, but this time we will break down the numbers in the format of lists and apply the same pattern: For [1, 2] and [7, 14]: $1 * 7 = 7$ $2 * 7 = 14$ Therefore, [1, 2] is transformed into [7, 14]. Now, to find the transformation for [2, 1]: $2 * 7 = 14$ $1 * 7 = 7$ Thus, [2, 1] is transformed into [14, 7]. Therefore, the answer is [14, 7].

No. You did not format the number sequence correctly. The sequence must be concatenated together to create a single number.

Apologies for the mistake. Let's correct that. Given: 12 is to 714 as 21 is to what? Converting the numbers into concatenated sequences: For 12: $1 * 2 = 2$ Concatenating the results gives us 2 1 2. For 714: $7 * 1 = 7$ $1 * 4 = 4$ Concatenating the results gives us 7 1 4. Now, applying the same operation to 21: For 21: $2 * 1 = 2$ $1 * 1 = 1$ Concatenating the results gives us 2 1 1. Thus, the number that is to

21 as 12 is to 714 is 211.

DAL-E

Create an image for my presentation: Clever Hans, the horse that knew how to do math facing an engineer holding a clipboard and taking notes on the answers from Clever Hans. Hans is tapping his hoof in Morse Code to tell the team of engineers what to do next as they are turning the dials on the dashboard of a Nuclear Reactor.



DALL-E

Create an image for my presentation: A Reverse Centaurs (horse head on a human body) is in an Amazon distribution factory in a small room. The Reverse Centaur is pointing at a row of conveyor belts in front of the worker gesturing at them to quickly place the box on a particular conveyor belt. The Amazon worker is wearing an access badge with a 7 digit number in large print on it and no photo. The worker is also wearing a homemade catheter shown as a plastic water bottle full of

yellowish fluid below their waiste in a the cargo
pants pocket on their thigh. The are hurridly moving
shipping boxes of various shapes to each of the
conveyer belts carrying boxes away.



