

Instructions



On this
test:

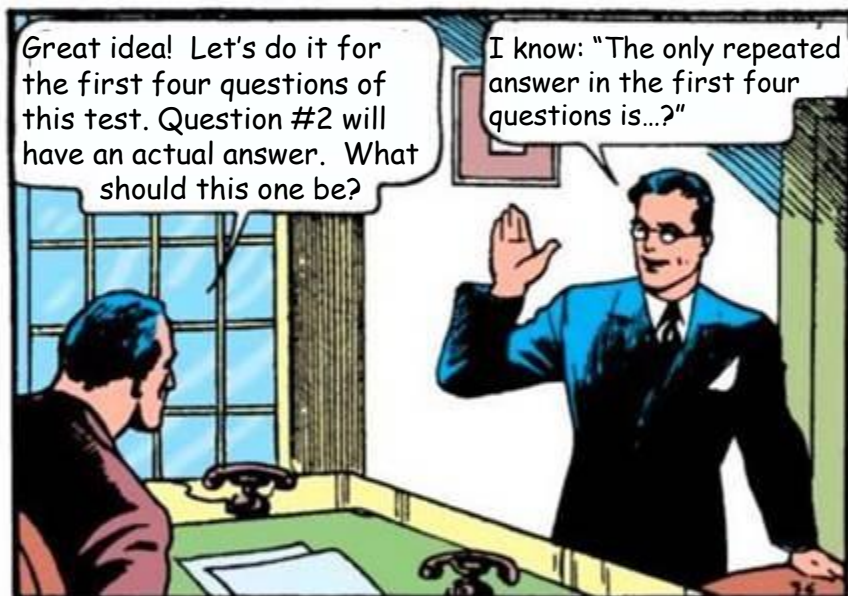
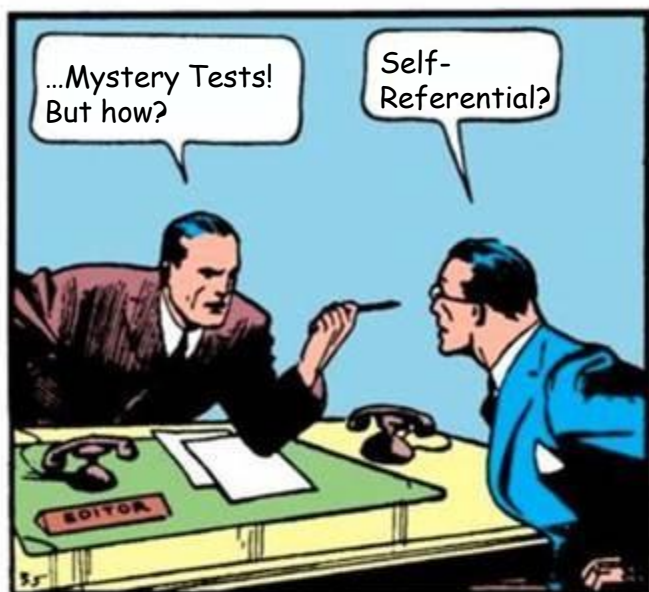
Each page is a question.
The answer choices are
in another packet.

The questions are not
"traditionally" phrased.

There will be
NO disputes
based
on

incorrect
interpretations of
questions.

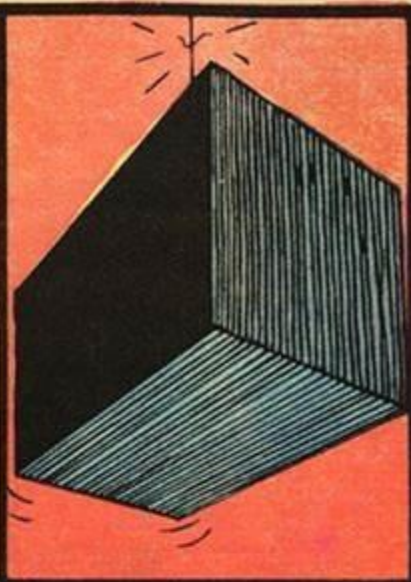
Question 1



Question 2

A
cryptarithm:

$$\begin{array}{r} \text{SSH} \\ \times \text{ZZ} \\ \hline \text{MZMH} \\ \text{MZMA} \\ \hline \text{MHHSH} \end{array}$$



Each letter represents the same prime digit (2,3,5,or7). There is a unique solution you must find. Then, find the sum of all 18 of the digits in the cryptarithm.



Is the answer
198126113?



No, but that is the number you get when you write "Shazam" using numerical letter values concatenated....



Question 3

I have been tasked with the second self-referential question.



This will require much work...



And so...

I need inspiration so the test is consistent and unique!



I will train my mind...



And my body...



Until I am finally ready!...



I have it: "The first question on this test whose answer is (a) is..."



Now what?

Shame for all that training to go to waste



I guess I'll become Batman



Question 4

What is the answer to this question?



You have all the information you need.



Self-referential tests are weird but luckily that isn't the whole test.



Many of the rest of the...



Watch out!



Math incoming!



...questions on this test are from the year of their comic, though! Good luck and have fun!



Yes!

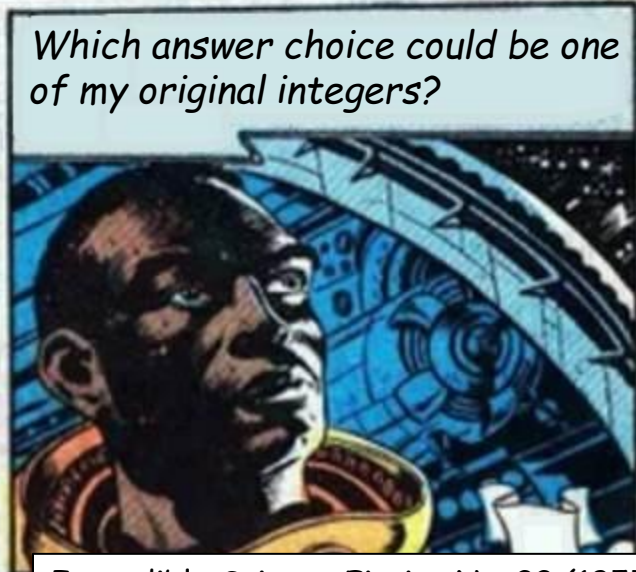
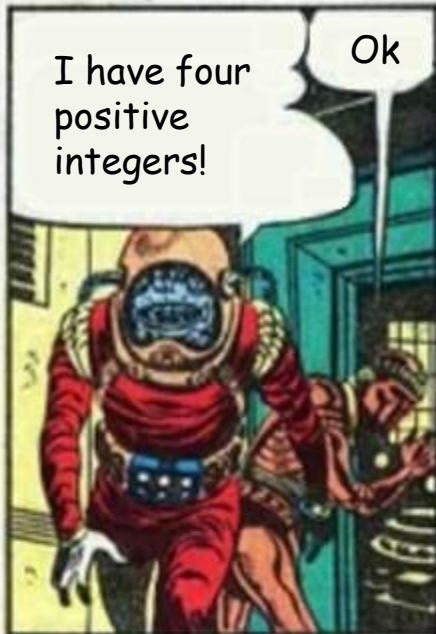
Just-Six League Sudoku!

Put the digits 1 to 6 once each in every row, column, and 2x3 box in the grid.

Your answer to this question is the sum of the digits along the indicated diagonal.

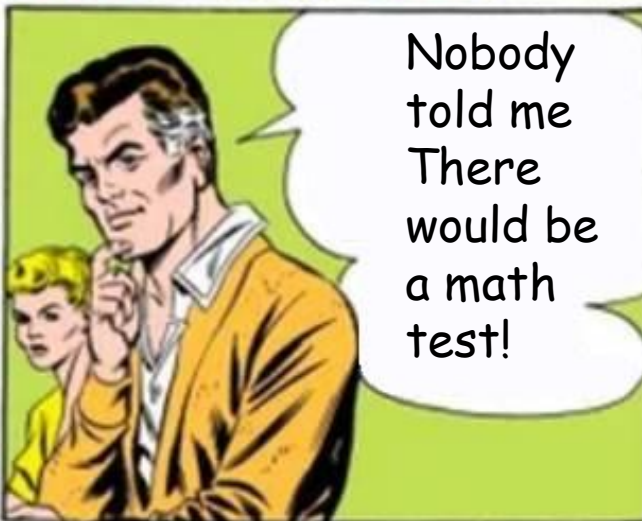
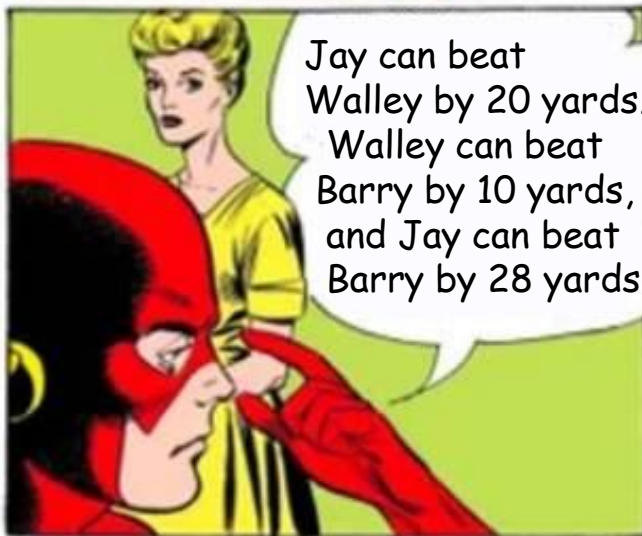
		5			2
6					
4					5
5				4	
		1	2		
					1

Question 6



Question 7





Question 9

Cap's watch loses 2.5 minutes per day.

Seems minor. He's frozen.

Agreed.

A comic book panel showing Iron Man in his red and gold suit and Thor in his Asgardian armor. They are looking at a frozen Captain America, who is encased in a block of ice. Iron Man is speaking, and Thor is responding.

The watch is set to 1 pm on March 15

Ok

A comic book panel showing Captain America in a blue suit, standing underwater. He is looking down at his wrist, where his watch is. A pink speech bubble with the word "Ok" is next to him.

Is that the correct time?

Yes

A comic book panel showing Thor and Iron Man. Thor is holding a watch and looking at it. Iron Man is looking at the watch. Thor is asking if it's the correct time, and Iron Man is responding "Yes".

When the watch Shows 9 am on March 21...

Go on....

A comic book panel showing Thor and Iron Man. Thor is holding a watch and looking at it. Iron Man is looking at the watch. Thor is asking if it's the correct time, and Iron Man is responding "Yes".

What is the difference between....

The actual and watch time?

A comic book panel showing Thor and Iron Man. Thor is holding a watch and looking at it. Iron Man is looking at the watch. Thor is asking if it's the correct time, and Iron Man is responding "Yes".

We mean the positive Difference in minutes!

A comic book panel showing Thor and Iron Man. Thor is holding a watch and looking at it. Iron Man is looking at the watch. Thor is asking if it's the correct time, and Iron Man is responding "Yes".

Question 10

$$P(n) = n^4 + 6n^3 + 11n^2 + 3n + 31$$

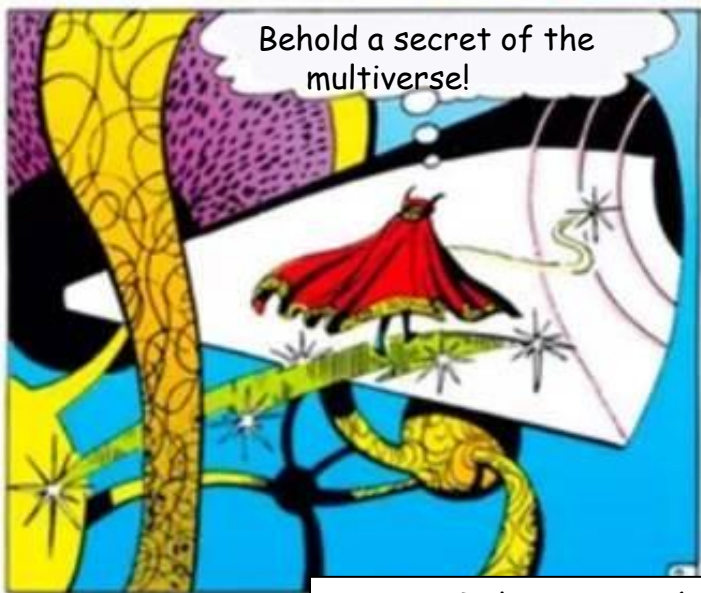
How many integer values of n ...

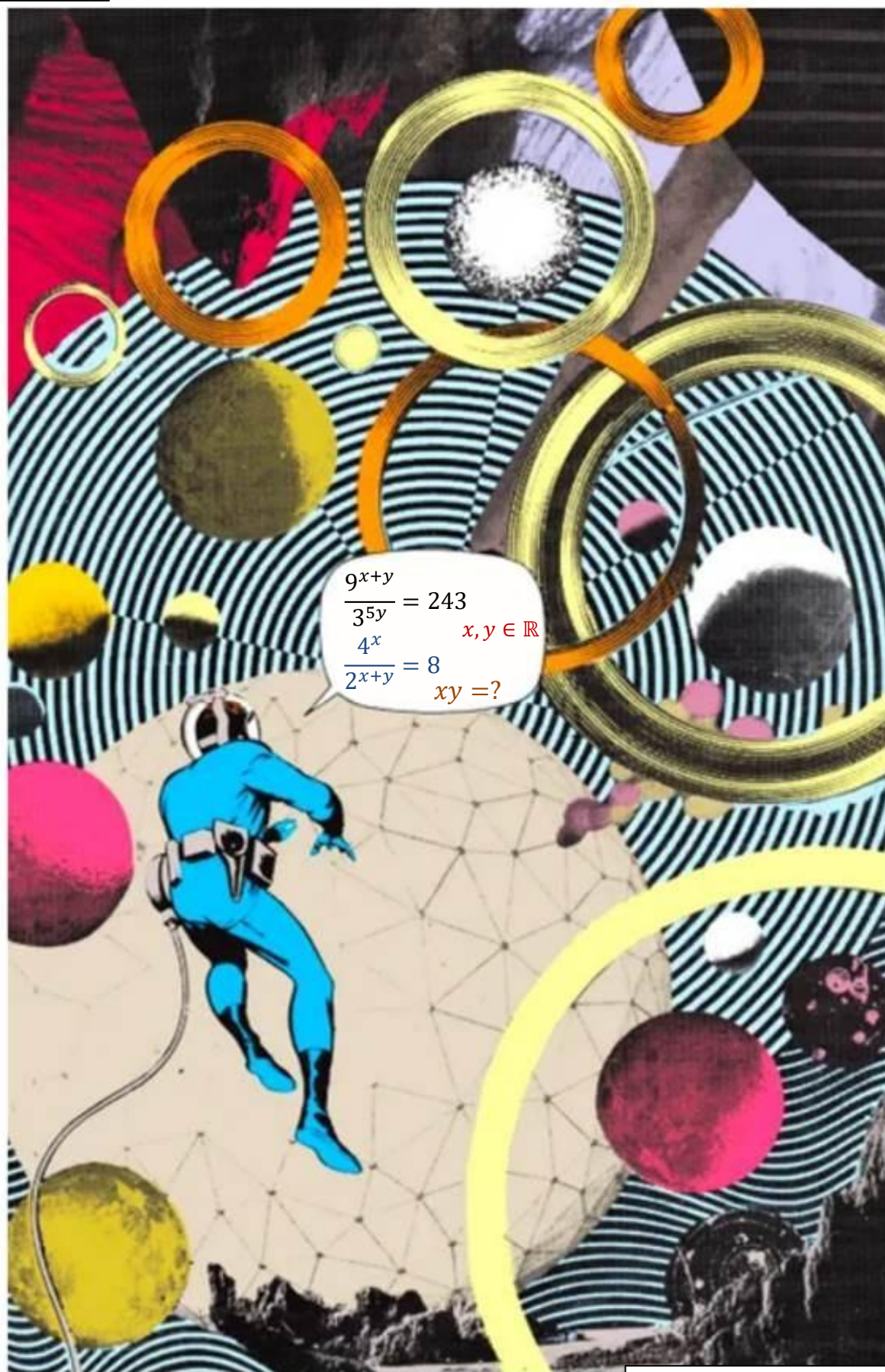


... will make $P(n)$ an integer squared?



Behold a secret of the multiverse!





Question 12



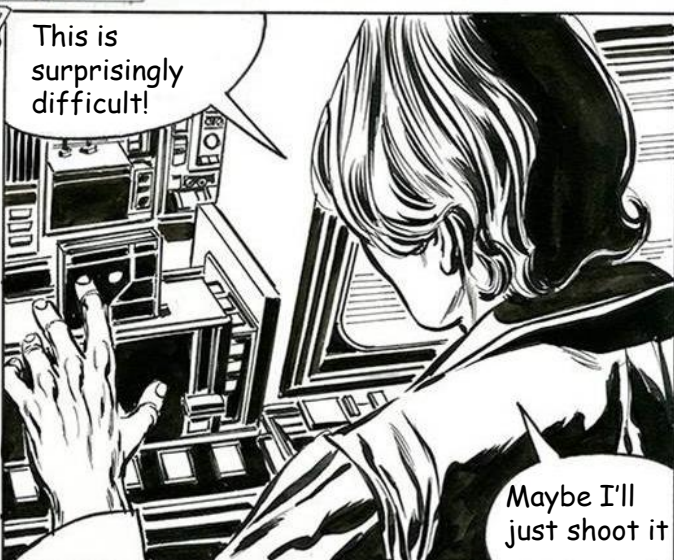
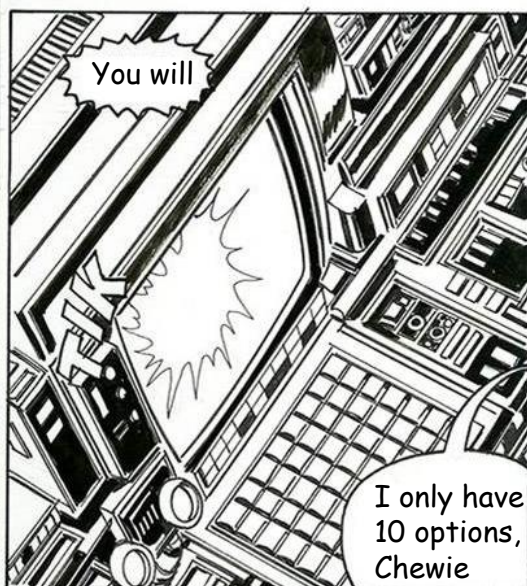
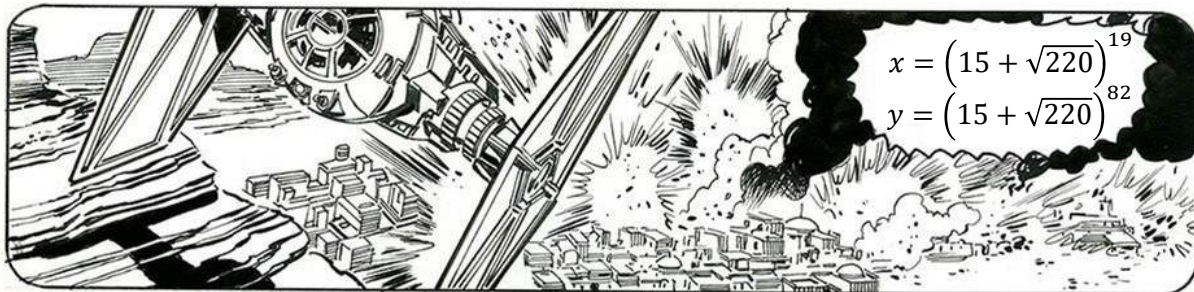
Question 13



Billy, Tom, and Wanda repeatedly take turns tossing a fair six-sided die.

Billy begins; Tom always follows Billy; Wanda always follows Tom; and Billy always follows Wanda.

Find the probability that Wanda will be the first one to toss a six.





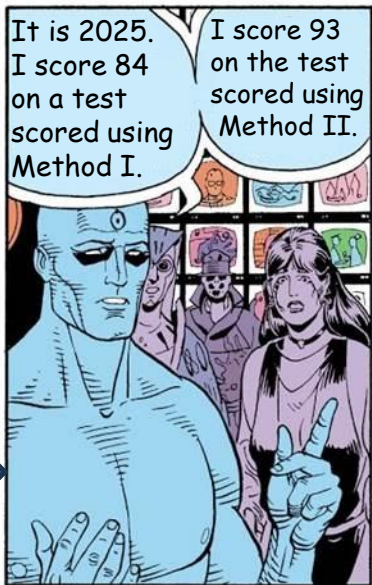
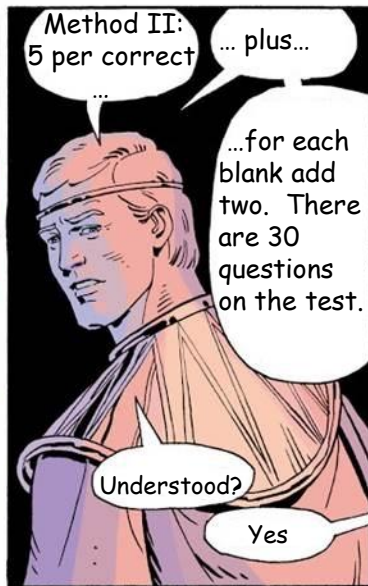
TENAG
MUIJR
LHOSF
PWBCD
KQVXY

QWJBOSLGWULSSKHSBUATAGUTOJ
OCAHEGCAFSBJGEGWBUELCGNOABJV



Shredder doesn't always play fair, but you can help by decoding the above question and answering it with the choices provided.

Question 16

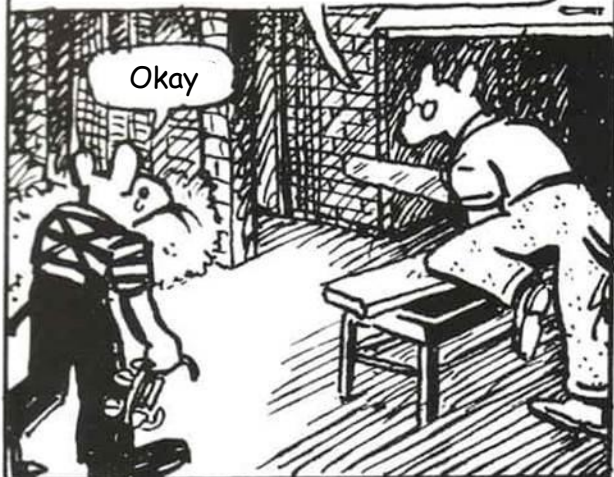


John

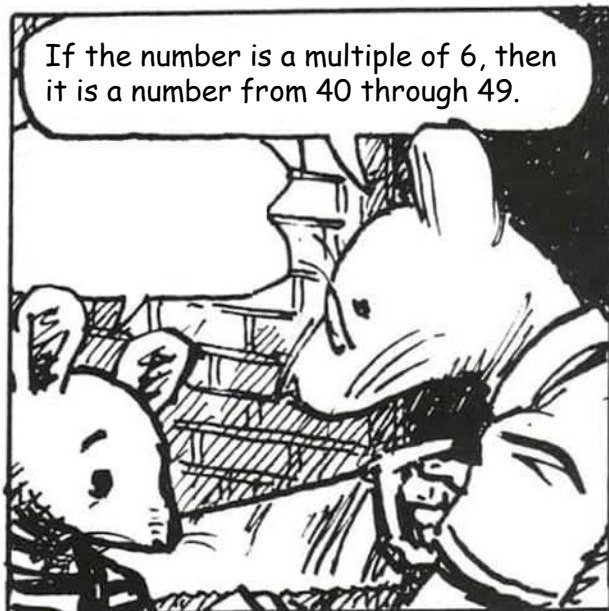


Question 17

I want you to guess a magic number using the following information:

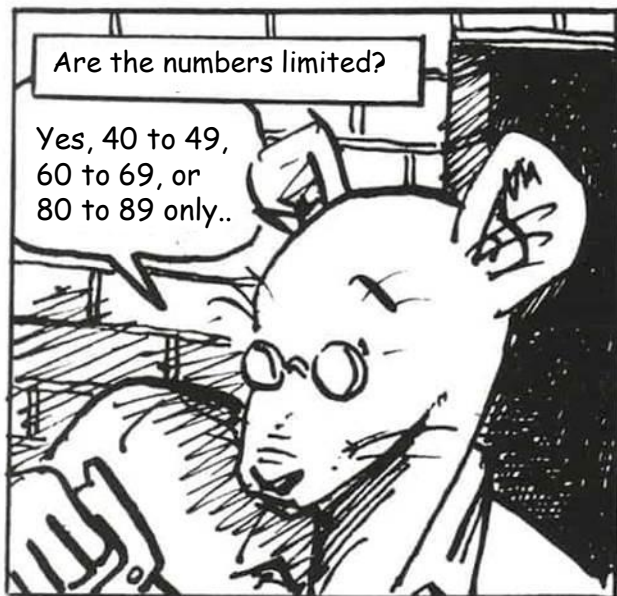


If the number is a multiple of 6, then it is a number from 40 through 49.

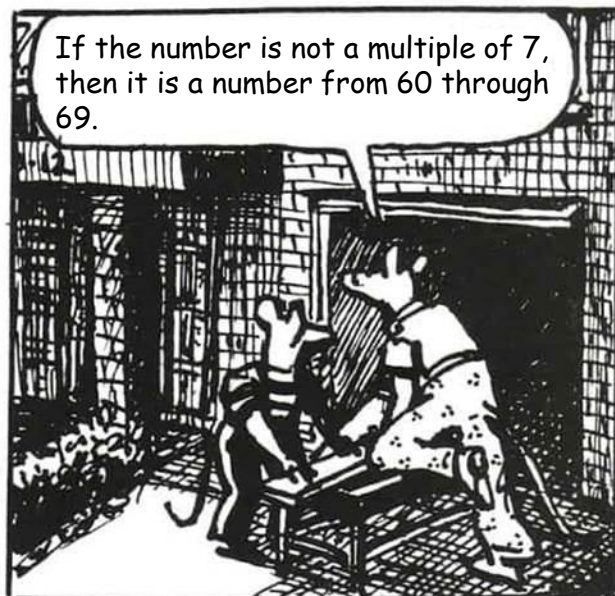


Are the numbers limited?

Yes, 40 to 49,
60 to 69, or
80 to 89 only..

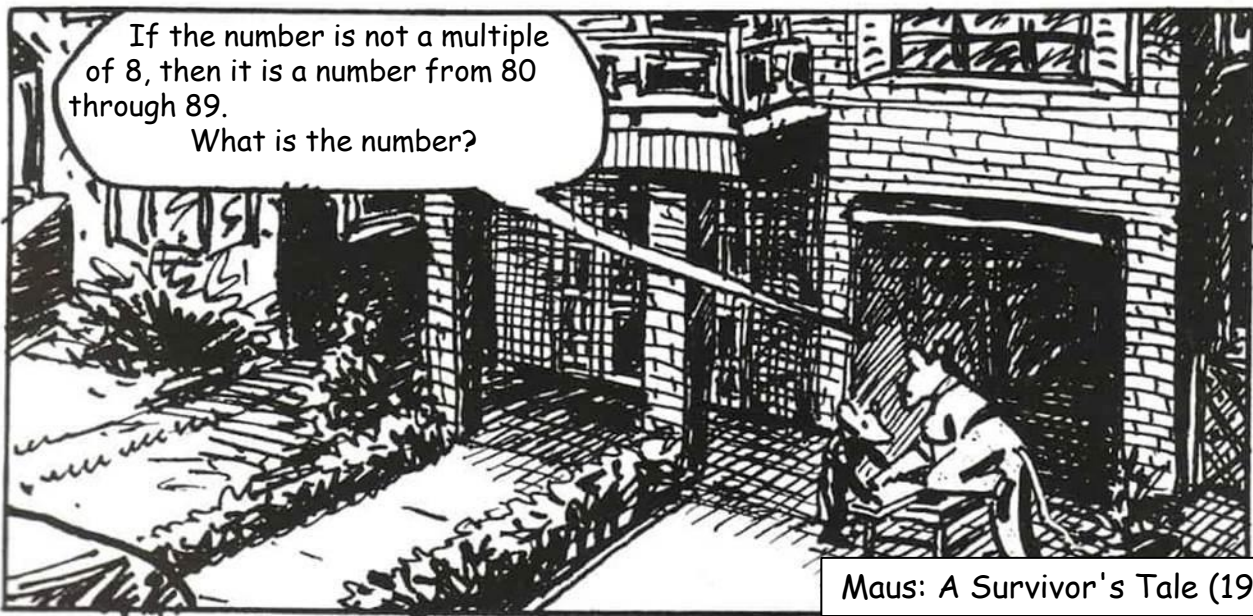


If the number is not a multiple of 7, then it is a number from 60 through 69.



If the number is not a multiple of 8, then it is a number from 80 through 89.

What is the number?

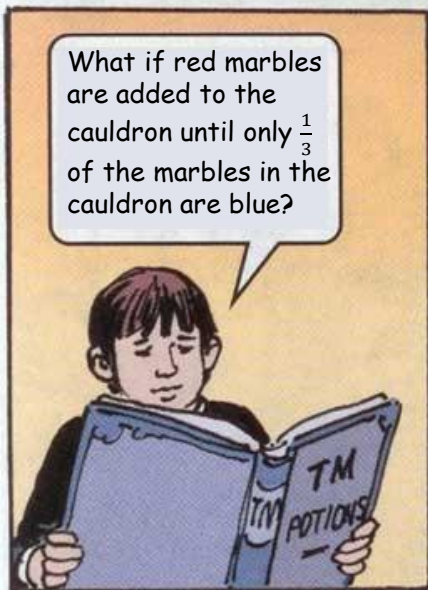


Question 18







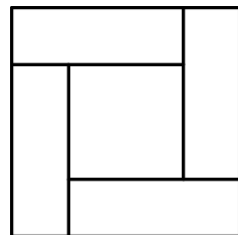


If $a + \frac{1}{a} = 4$, find $a^4 + \frac{1}{a^4}$





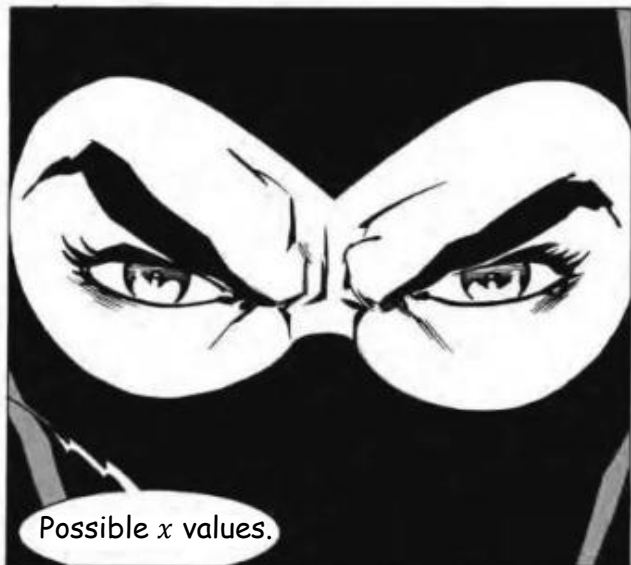
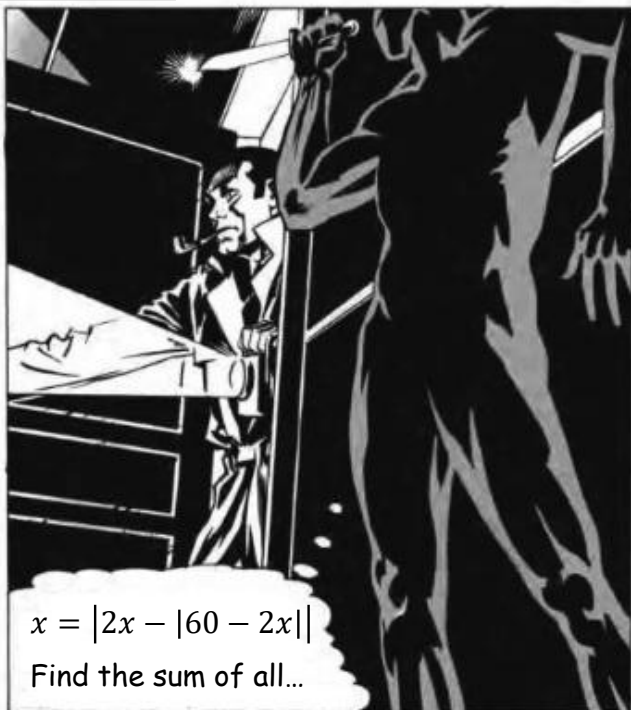
Four congruent rectangles are placed as shown. The area of the outer square is four times that of the inner square. What is the ratio of the length of the longer side of each rectangle to the length of its shorter side?





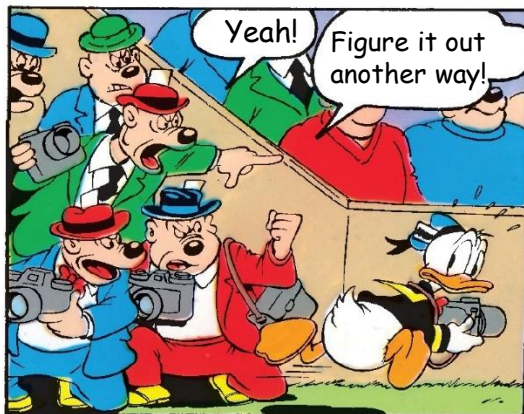
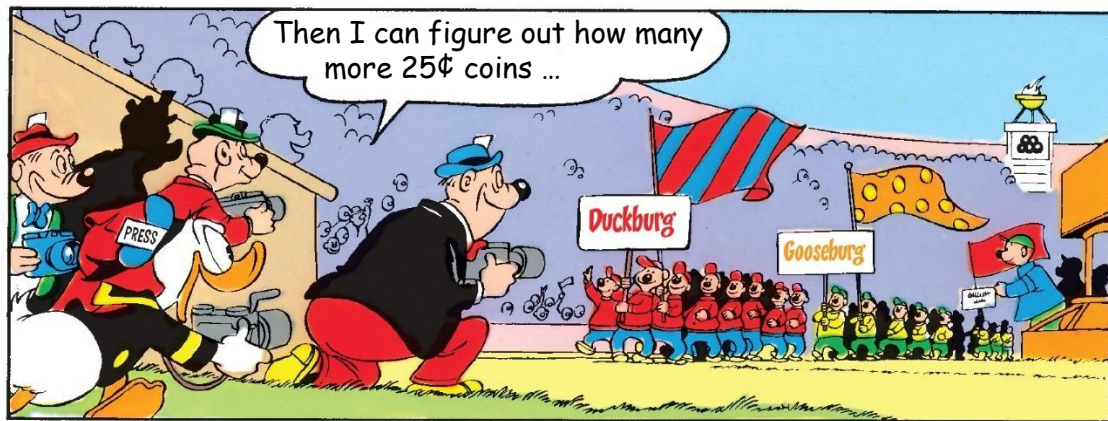
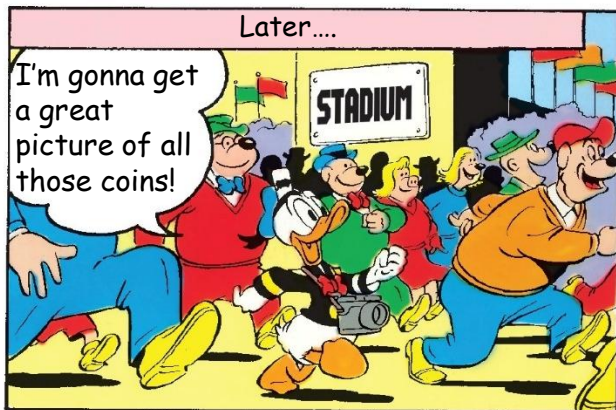
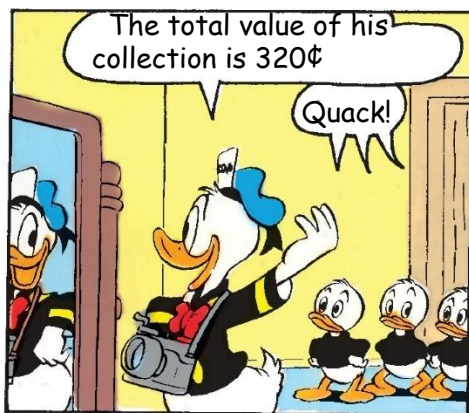
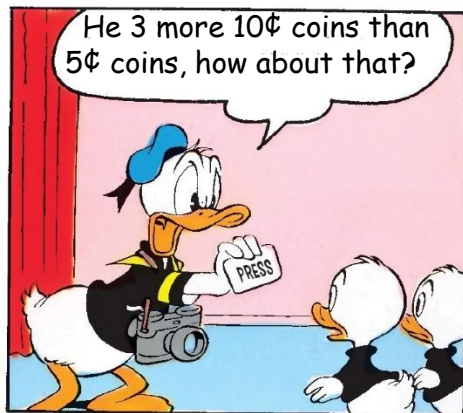
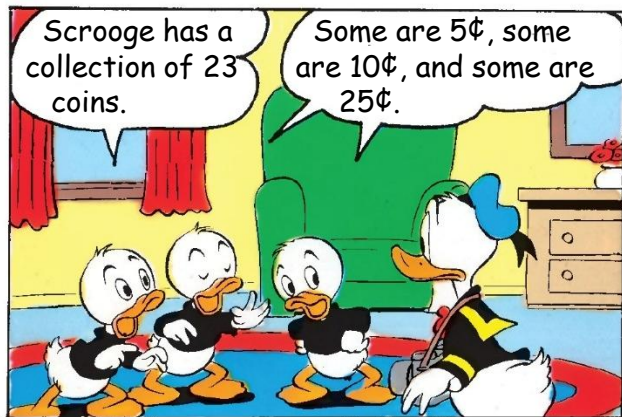
Which statement in the answer choices about me is false?

Question 25



Question 26







Hey Bub!

Oh no...

A sphere with center O has radius 6. A triangle with sides of length 15, 15, and 24 is situated in space so that each of its sides are tangent to the sphere.



What is the distance between O and the plane....?

SLASH SLASH SLASH

The one determined by the triangle?



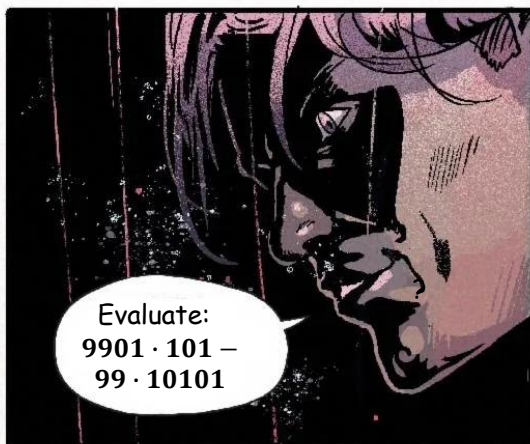
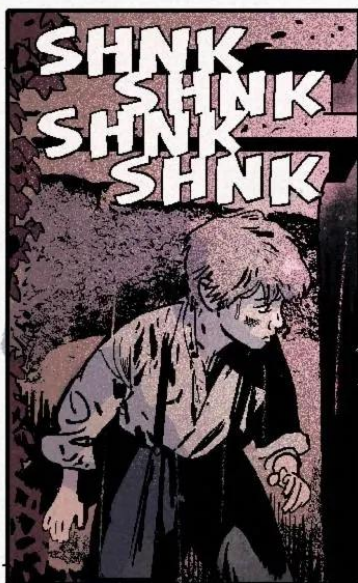
Ahhhh!

Yes

Please don't encourage him, he always does this annoying...

I hate Geometry





MARVEL

T H E E N D

DEADPOOL

W. THORNE
J. OLAZABA
J. REDMOND



PARENTAL ADVISORY