LOGICAL AND MATHEMATICAL INTELLIGENCE TEST FOR HIGH SCHOOL STUDENTS

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By

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PUZZLES FOR TESTING INTELLIGENCE

1) A Blind Man and Two Pills

The blind man is alone on a deserted island he has two blue pills and two red pills kept in a container. The pills are identical in shape and size. He must take exactly one red pill and one blue pill, else for any other combination he was dying. How will the blind man ensure that he takes exactly one red pill and one blue pill to survive?

2) RED fish

An aquarium has 200 fish. 99 % of them are red fish. How many red fish must be removed to make the percentage of red fish 98%?

3) Two boys crossing river

Two boys wish to cross the river. The only way to go to other side is by a boat. But the boat can take only one boy at a time. The boat cannot run on its own, there are no ropes or any tricks. Yet the boy managed to cross the river using the boat. How did he managed to cross the river?

4) Two planes

Plane A departs from New York to London at A Speed of 600 miles per hour at the same time plane B departs from London to New York at the speed of 500 miles per hour.

When the planes meet, which one will be closer to London?

5) Trunk Driver

On a one way street a trunk driver is going down the opposite way. A police officer sees him but doesn’t stop him. Why didn’t the police officer stop?

RIDDLES for checking your presence of mind

1. Old man Birthday

An old man, who was born in the year 1948, quite recently celebrated his 17th birthday…how is it possible?

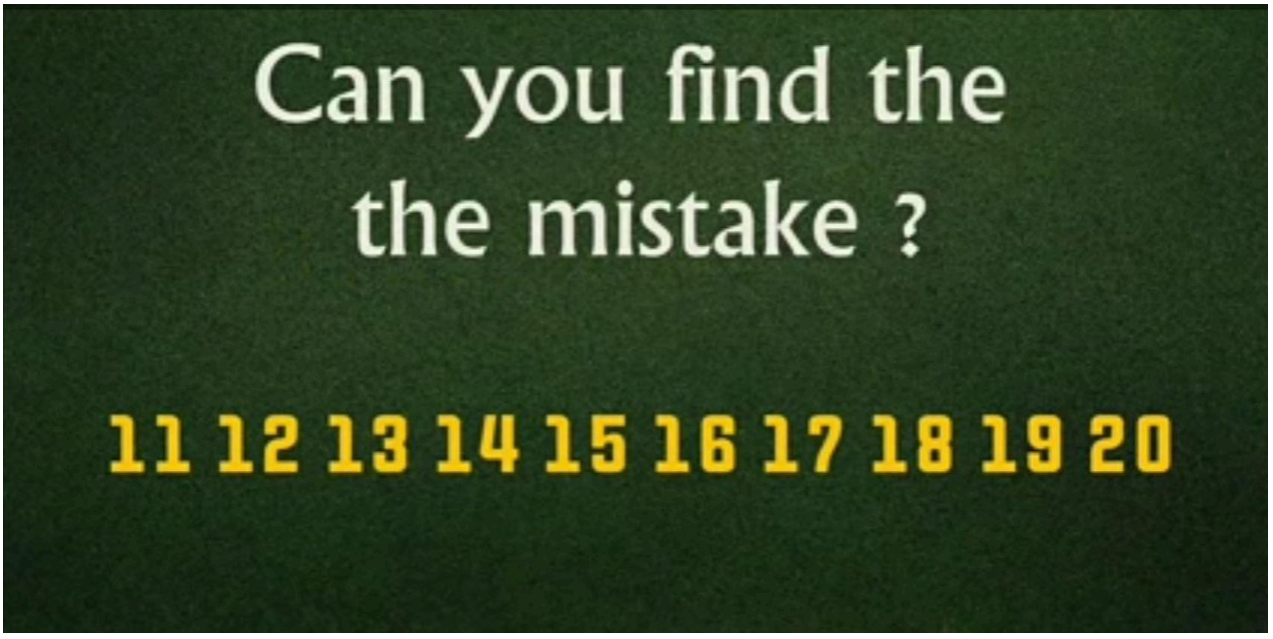
2. Snail and the wall

A snail is at the bottom of 30 feet wall. Every hour the sail climbs up 3 feet up and slides down 2 feet back down. How many hours does the snail take to touch the top?

3. The 12 match sticks

12 match sticks are lying in front of a person. One match stick is removed …now he sees NINE!! How is that possible?

4. Find the Mistake



5. Buffalo Crossing the Street

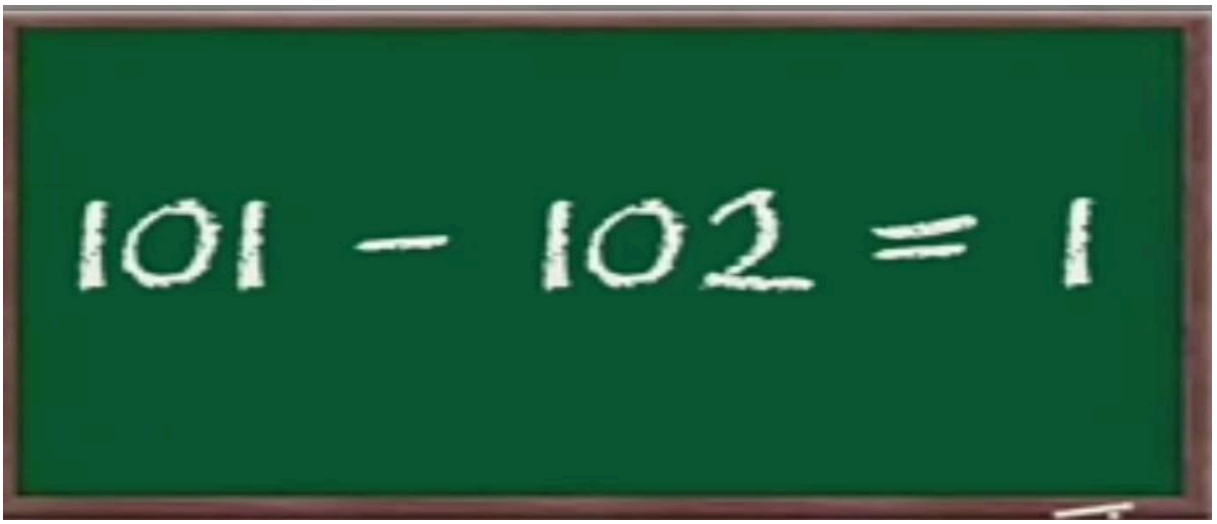
All the electricity was out in the town and none of the street lights or traffic signals had power. A man was driving his black car, with its headlights broken. A buffalo suddenly stepped on to the street. Although there was not even moon light, yet the driver stopped to let the buffalo cross the street.

How did the driver see the buffalo?

6. Mathematical symbol

What mathematical symbol can be put between 5 and 9, to get a value bigger than 5 and smaller 9?

7. Correct the equation without changing symbols



8. Divide 30 by half and add 12. What do you get?

9. A customer in a hardware store asks

Customer: how much will one cost?

Shopkeeper: twenty rupees

Customer: how much will twelve cost

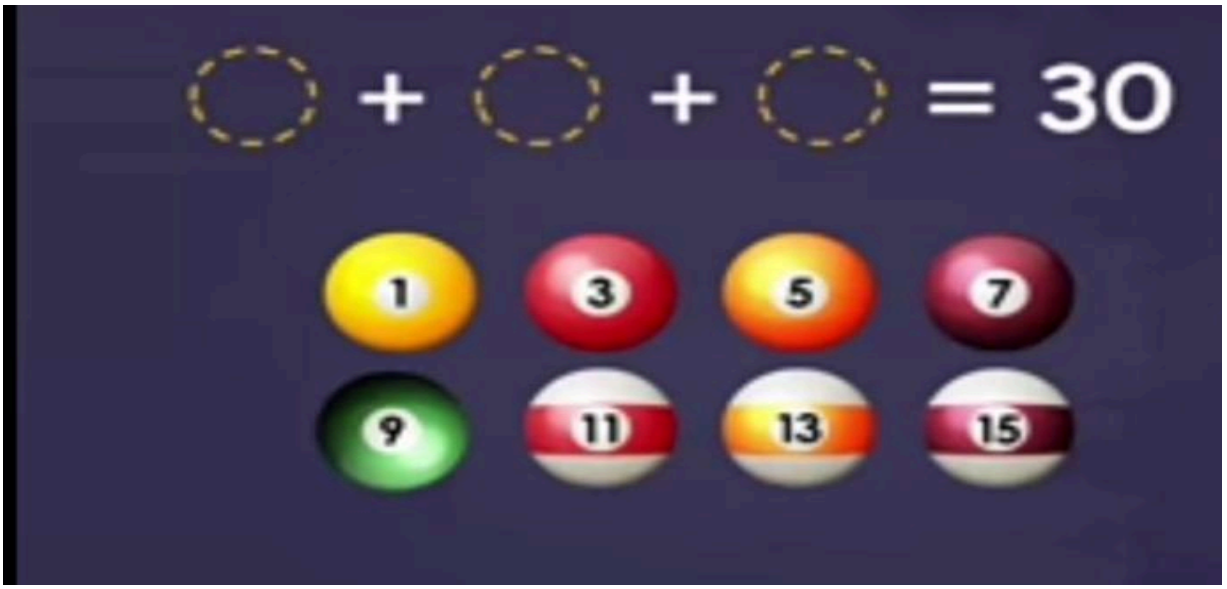
Shopkeeper: forty rupees

Customer: I will take One hundred and Twelve

Shopkeeper: ok, please pay sixty rupees.

What is the customer buying?

10. Select three balls and put them into the circles to get the sum as 30



RIDDLES that will check your logical power

I. Nine horses are inside a large square fence.
How would you construct just two more square fences so that each horses gets completely isolated?



II. A large newspaper is created using 100 sheets of paper folded in half. The pages are numbered from 1 to 400. A sheet is pulled out of the newspaper.
If one of the page numbers on this sheet is 178, can you find out the numbers on other three pages on this sheet?

III. There is a 100 kg watermelon laying out in the sun. 99%
Of the watermelon's weight is water.
After laying out for a few hours,98% of the watermelon's

weight is water. How much water has evaporated?

IV. An absent minded philosopher forget to wind up the clock in his house. He had no radio, TV, telephone, internet, or any other means for telling time. He therefore decided to travel by foot to his friend's house, a few miles down a straight desert road. He stayed there for the night and when he came back home the following morning, he was able to set his clock to the correct time.
How did he know the exact time upon his return?
(Note: he didn't bring anything to friend's home, nor did he bring anything while returning home, he always walks at the same speed)

V. An oil merchant has 21 oil barrels

- 7 barrels are full
- 7 barrels are half full
- 7 barrels are empty

He wants to divide these barrels equally among three sons in such a way that each son get

- Same number of full barrels
- Same number of half full barrels
- Same number of empty barrels

(There are no measuring devices handy)

How can the barrels and the oil be equally divided?

MATH RIDDLES TO TEST LOGICAL SKILLS

1) A man was suffering from severe headaches. He went to see his doctor gave him five tablets asking him to take one tablet every 15 minutes. How much time will it take to a man to consume all the five tablets?
2) Three numbers if placed in ascending order of their value can offer a product that is prime when multiplied together. Also in these numbers the difference between the second and the first number is equal to the difference between third and the second number. Can you find out those three numbers?
3) Two fractions 1/3 and 2/3 are given to you can you find a fraction that lies one third on the way between them?
4) What will the remainder if 2^ 300 is divided by 4?
5) Removing one from eleven makes it ten and removing one from nine makes it ten. How is it possible?
6) One Brick = 1Kg + (half Brick)
   What is the weight of one brick?
7) When I was 6 my neighbor was half my age, now I am 71. What is the age of my neighbor?
8) What is so unique about this number?

   8 5 4 9 1 7 6 3 2 0

   Hint: don't think mathematically.
9) A bat and ball cost $110. The bat is $100 more than the ball. How much does the bat cost?

10) The mirror image of an analogue clock shows the time as 2.30. What is the actual time?

SIMPLE MATH RIDDLES

1) If you multiply all the numbers on the phone what will be your answer be?

2) How many times can you subtract from 10 from 50?
   Hint: from 50
3) Which one is heavier?
   A pound of rock or a pound of cotton
4) My mom went to the grocery store to buy 12 eggs. On the way home all but 8 broke and crushed by other grocery items. How many eggs are still in good condition?
   (Hint: you don't need any computation)
5) A chicken was given $10. A spider was given $40. An ant was given $30. How much would a dog get?
6) You have 2 cows, 2 birds, and 1 cats. How many legs do you have?
7) A man walks into a room and sees a bed.
   On the bed there are 3 dogs, 2 cats, 1 duck.
   How many legs are on the floor?
8) When Charlie was 10, his brother was half his age. Now, Charlie is 18. How old is his brother now?
9) The number of jelly beans in a jar doubles every minute. If the jar is full of jelly beans in an hour, when was it half full?
   (it was full in an hour)
10) What goes through cities and fields, but never moves?

BRILLIANT MATH PUZZLES

1. A Tree doubled in height each year until it reached its maximum height over the course of 10 years. How many years did it take for the tree to reach half its maximum height?
2. A new medical building containing 100 offices had just been completed. Mark was hired to paint the numbers 1 to 100 on the doors. How many times will mark have to paint the number nine?
3. Something very extraordinary happened on the 6th of May, 1978 at 12.34 am. What was it?
4. Find the four digit number in which the first digit is one fourth of the last digit, the second digit is 6 times the first digit, and the third digit is the second digit plus 3. What is it?
5. There are certain men and horses. In all, there are 22 heads and 72 feet. How many men and how many horses are there?
6. Can you write eight eights so that they add up to one thousand?
7. What two whole, positive numbers that have one digit answer when multiplied and two digit answer when added?
8. Lilly flower doubles her size each day in a small pond, on the 20th day she covers the whole pond. On what day lily half the size of the pond?
9. Mr. Smith has 4 daughters, Each of his daughters has a brother. How many children does Mr. Smith have?
10. Six foxes catch six hens in six minutes. How many foxes will be needed to catch sixty hens in sixty minutes?