A pattern formed by two characters *a* and *b* is repeated more than once in the following string :

$\times b \times a \times a \times \times a \times a \times a \times bab$

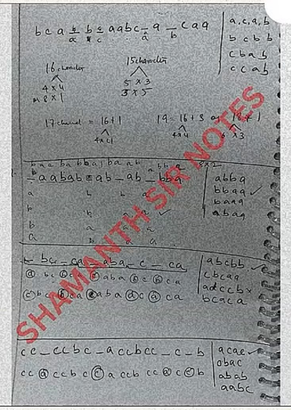
What is $\times\times$ in the 7th and 8th positions from the left in the above string?

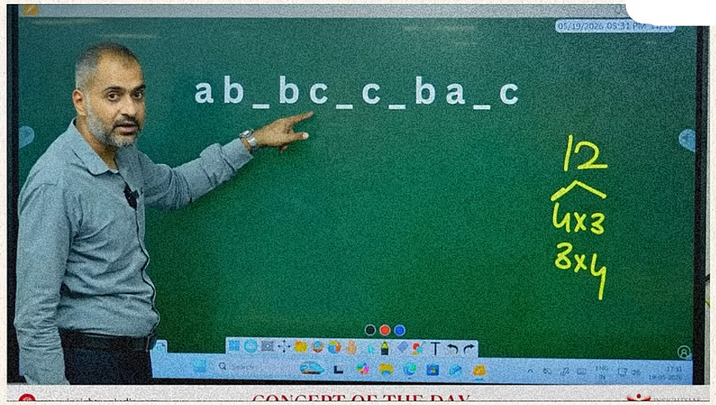
(a) *aa* UPSC CSAT 2026

(b) *ab*

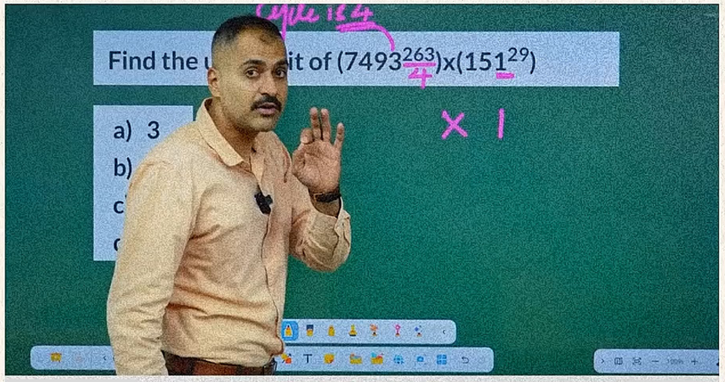
(c) *ba*

(d) *bb*





CONCEPT OF THE DAY



CONCEPT OF THE DAY

A pattern formed by two characters *a* and *b* is repeated more than once in the following string :

$\times b \times a \times a \times \times a \times a \times a \times bab$

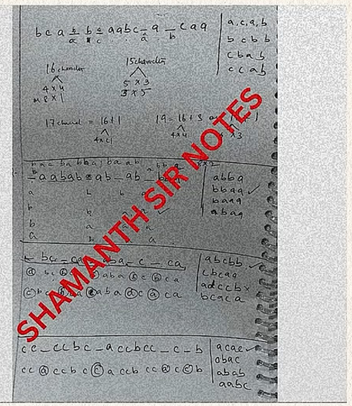
What is $\times\times$ in the 7th and 8th positions from the left in the above string?

(a) *aa* UPSC CSAT 2026

(b) *ab*

(c) *ba*

(d) *bb*



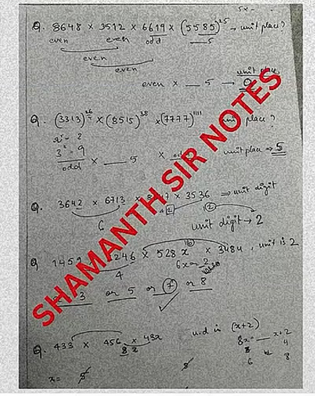
The digit in the unit place of the number $6^{129} \times 7^{307}$ is UPSC CSAT 2026

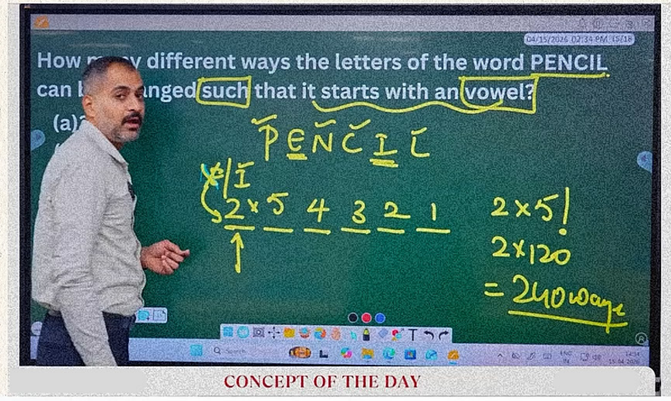
(a) 2

(b) 4

(c) 8

(d) 6





CONCEPT OF THE DAY

How many words can one form by shuffling the letters of the word QUEUE, if Q is always followed by U? The words thus formed need not necessarily have any meaning.

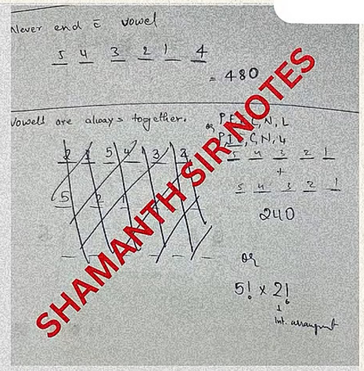
UPSC CSAT 2026

(a) 6

(b) 8

(c) 10

(d) 12



SHAMANTH SIR NOTES

P has a son and a daughter. S is the mother of T. S is R's spouse. Q and R are children of P. Then how is Q related to S?

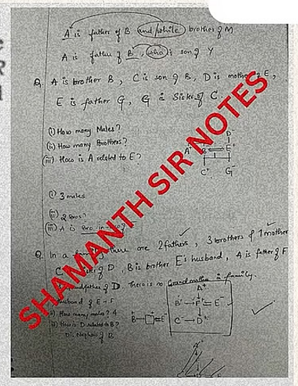
UPSC CSAT 2026

(a) Q is a sister of S

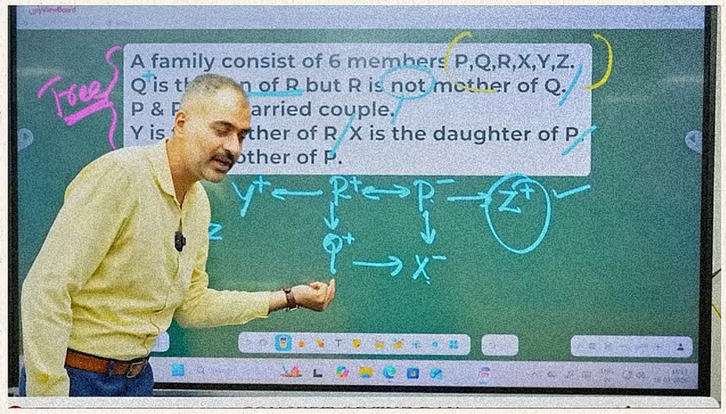
(b) Q is a daughter of S

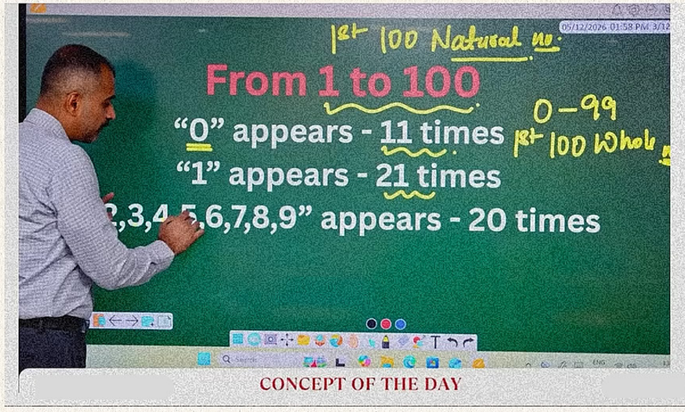
(c) Q is the mother of S

(d) Q is a sister of the husband of S



SHAMANTH SIR NOTES





CONCEPT OF THE DAY

P has a son and a daughter. S is the mother of T. S is R's spouse. Q and R are children of P. Then how is Q related to S?

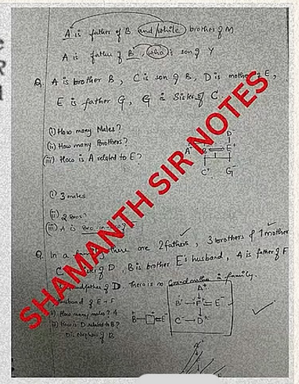
UPSC CSAT 2026

(a) Q is a sister of S

(b) Q is a daughter of S

(c) Q is the mother of S

(d) Q is a sister of the husband of S



SHAMANTH SIR NOTES

How many times does 5 appear in all two-digit positive integers?

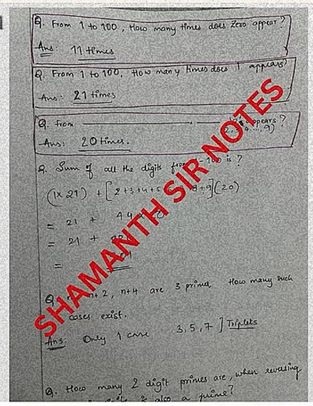
UPSC CSAT 2026

(a) 18

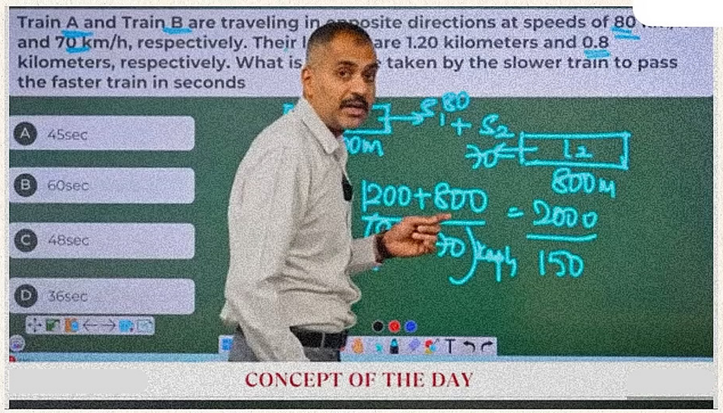
(b) 19

(c) 20

(d) 21



SHAMANTH SIR NOTES



If x and y are two digits and the numbe
$4x5y790$ is divisible by 11, then wha
is the remainder, if $x+y$ is divide
by 11?

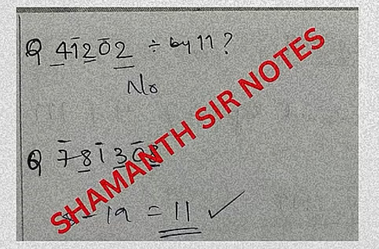
UPSC CSAT 2026

(a) 1

(b) 3

(c) 5

(d) 7



The speed of a train T is 100 km per hour and the speed of a person P is 4 km per hour. T crosses P in 15 seconds, if P travels along the direction of motion of T. If P travels along the opposite direction of T, then in how much time does T cross P, in seconds, approximately?

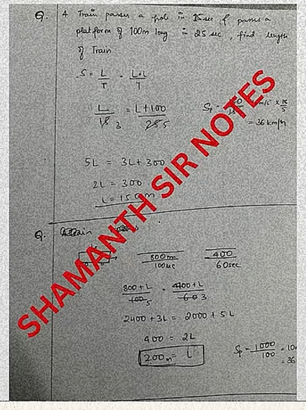
UPSC CSAT 2026

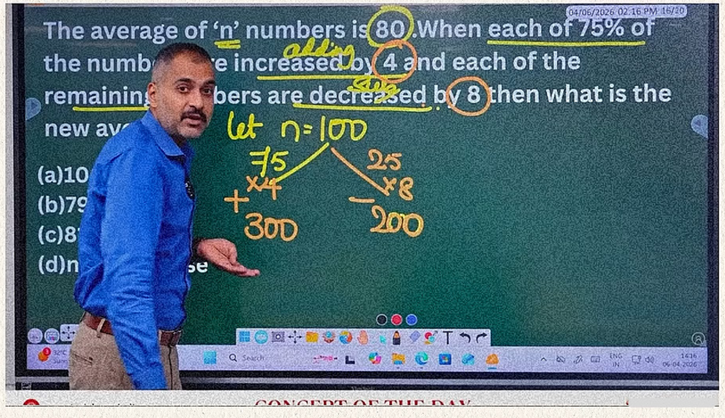
(a) 13·51

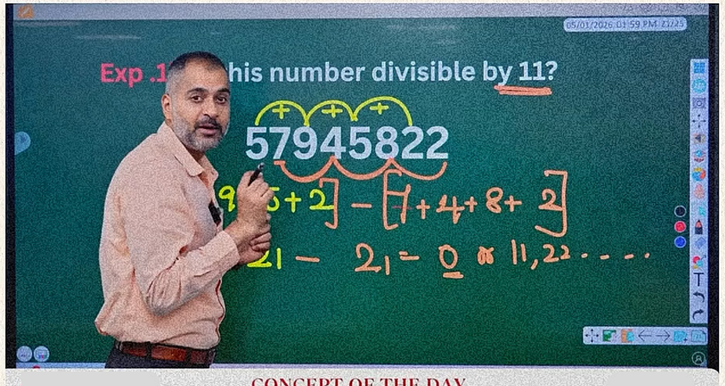
(b) 13·65

(c) 13·85

(d) 14·05







The class average x in a test increases by 4 when the score of a student is rectified, whose corrected score is 100 instead of 0. Later, the score of another student was found to have been recorded as 81 in place of 56. If there are no other corrections and the final corrected average is y, then $y-x$ is

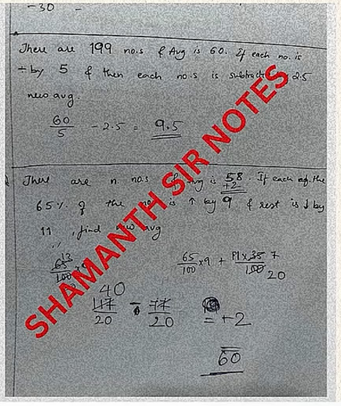
(a) 2

(b) 3

(c) 5

(d) 6

UPSC CSAT 2026



A person saves 10% of his salary every month. If his salary increases by 12% and the expenditure increases by 10%, then what will be the change in his saving per month?

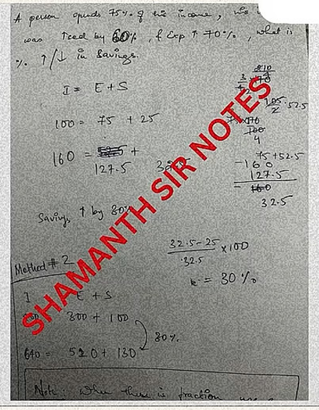
UPSC CSAT 2026

(a) 20% increase

(b) 30% increase

(c) 03% decrease

(d) 02% decrease



SHAMANTH SIR NOTES

X, *Y* and *Z* jump forward 4′, 6′ and 5′, respectively. At 8 AM, they all land on mark 199′. How many times will they all land on the same mark (need not be at the same moment) between mark 195′ and 1000′, if all of them cross mark 1000′ by 9 AM?

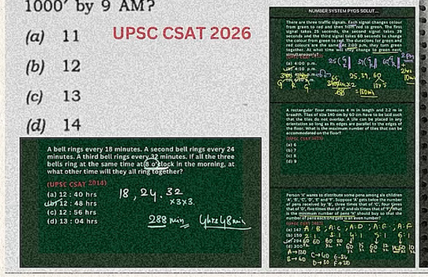
UPSC CSAT 2026

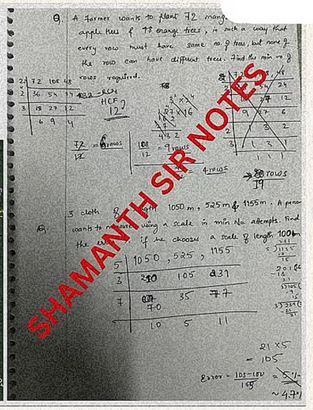
(a) 11

(b) 12

(c) 13

(d) 14





SHAMANTH SIR NOTES

X travels 6 km on a bicycle with average speeds of 5 km per hour, 10 km per hour and 4 km per hour during the first 1 km, the next 2 km and the remaining 3 km, respectively. *Y* travels the same distances with average speeds of 4 km per hour, 10 km per hour and 5 km per hour, respectively. How many minutes early will *Y* complete the journey if both *X* and *Y* start at the same time?

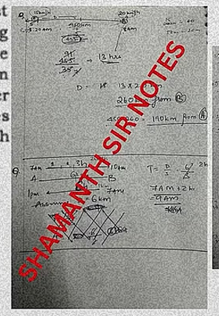
UPSC CSAT 2026

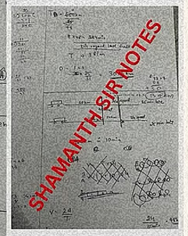
(a) 3

(b) 4

(c) 5

(d) 6





SHAMANTH SIR NOTES

Eight persons *P*, *Q*, *R*, *S*, *T*, *U*, *V* and *W* sit around a round table in eight different seats placed with equal distance between any two consecutive seats. Both *P* and *R* are adjacent to *Q*. Both *T* and *R* are adjacent to *S*. Both *U* and *W* are adjacent to *V*. *S* and *W* are on opposite chairs. If while going in the clockwise direction around the table from *P*, one meets *R* before *T*, then how many persons shall *Q* cross while moving in the clockwise direction around the table before meeting *W*?

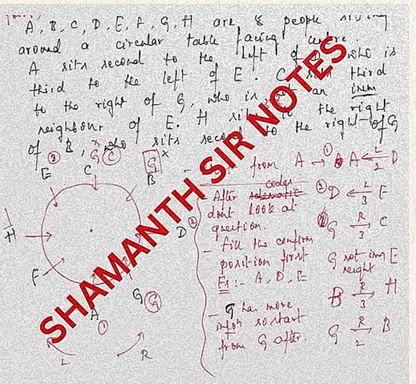
UPSC CSAT 2026

(a) 5

(b) 4

(c) 2

(d) 1



SHAMANTH SIR NOTES

Seven persons *A*, *B*, *C*, *D*, *E*, *F* and *G* travel by three cars *X*, *Y*, *Z*. *A* and another two of them travel by *X*. Only *E* travels with *G*. *C* travels by *Z*, but *B* does not travel by *Y*. Besides, *A* and *B* do not travel by the same car. Then which of the following are correct?

I. No one travels alone.

II. Only *D* travels with *F*.

III. Only *C* travels with *B*.

Select the answer using the code given below.

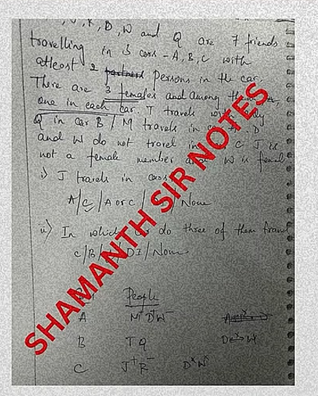
UPSC CSAT 2026

(a) I and II only

(b) I and III only

(c) II and III only

(



SHAMANTH SIR NOTES

If ZERO is encoded as ADSN, then how do you encode STOP?

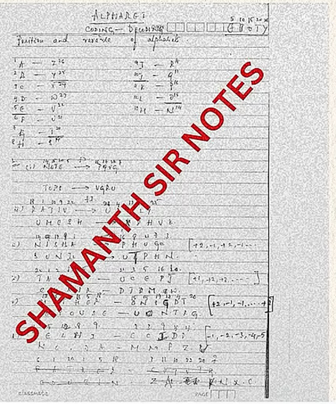
UPSC CSAT 2026

(a) SPOT

(b) TSPO

(c) TSOP

(d) POST



SHAMANTH SIR NOTES

If $10^m \times 1000 \times n = 75^{25} \times 25^{32} \times 32^{75}$, where n is not divisible by 10, then the value of m is

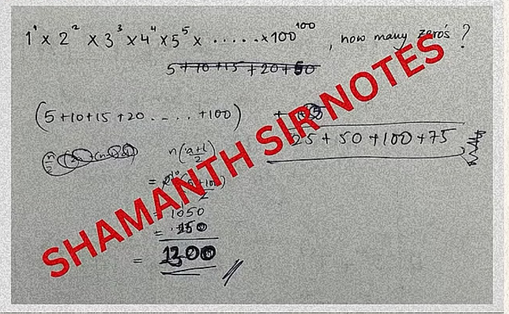
UPSC CSAT 2026

(a) 101

(b) 111

(c) 121

(d) 131



SHAMANTH SIR NOTES

What is the minimum number of times one needs to measure to get 298 litres of water from a tank, if the measuring cylinders have capacities 1 litre, 6 litres, 25 litres and 100 litres?

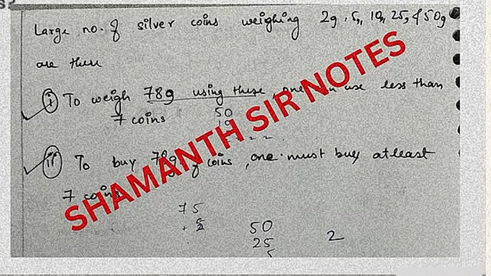
(a) 4

(b) 5

(c) 9

(d) 13

UPSC CSAT 2026



SHAMANTH SIR NOTES

Seven cubes are identical in shape. Out of these, the weight of each of the six cubes is equal and the weight of the remaining cube is less than the weight of any other cube. A balance is used to identify the lightest cube. What is the minimum number of attempts required to distinguish the odd cube with certainty?

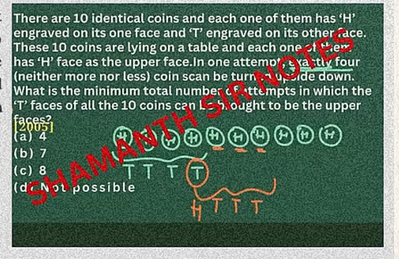
UPSC CSAT 2026

(a) 2

(b) 3

(c) 4

(d) 1



SHAMANTH SIR NOTES

A cut on a solid object divides the object into two parts where the new surfaces thus produced are plane. On the other hand, one single cut can be used to cut more than one object at a time. In an experiment, the total number of pieces produced by applying n cuts is denoted by x_n. The experiment is performed on a solid cube where pieces remain unmoved after each cut. In this experiment, if after the third cut, the pieces are identical, then which of the following is ***not*** a possible value for x_4?

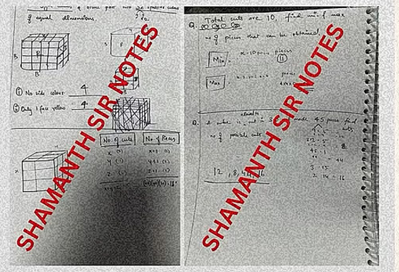
UPSC CSAT 2026

(a) 16

(b) 12

(c) 8

(d) 5



SHAMANTH SIR NOTES

SHAMANTH SIR NOTES

There are four types of weights, namely 1 kg, 2 kg, 5 kg and 10 kg. What is the maximum number of different ways one can measure 20 kg, if at least eight but not more than eleven weights of 1 kg are to be used while measuring?

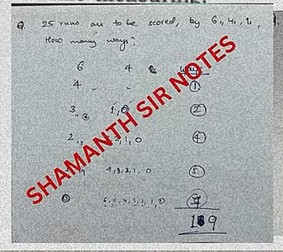
UPSC CSAT 2026

(a) 7

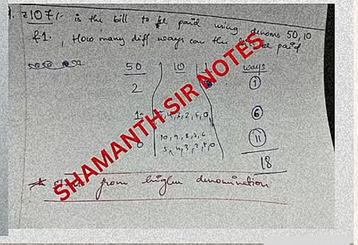
(b) 8

(c) 9

(d) 10



SHAMANTH SIR NOTES



SHAMANTH SIR NOTES

Three variables x, y and z take values 2, 3, 4 or 5 such that their values are always distinct. If M and N denote the largest possible value and the smallest possible value, respectively, for the expression $\{(x \times y) + z\}$; then $M - N$ is

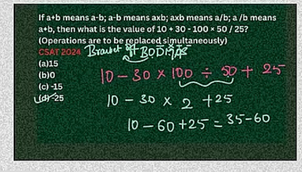
UPSC CSAT 2026

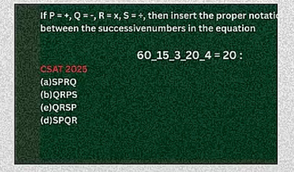
(a) 11

(b) 12

(c) 13

(d) 14





Question :

If x and y are integers, then is x even?

UPSC CSAT 2026

Statement I :

x^2y^2 is even.

Statement II :

$1 + x^2 + y^2$ is odd.

Three of the five positive integers 'p', 'q', 'r', 's', 't' are even and two of them are odd (not necessarily in order).
Consider the following:
I. (p + q + r – s – t) is definitely even.
II. (2p + q + 2r – 2s + t) is definitely odd.
Which of the above statements is/are correct?
(UPSC CSAT 2023)

(a) I Only
(b) II Only
(c) Both I and II
(d) Neither I nor III

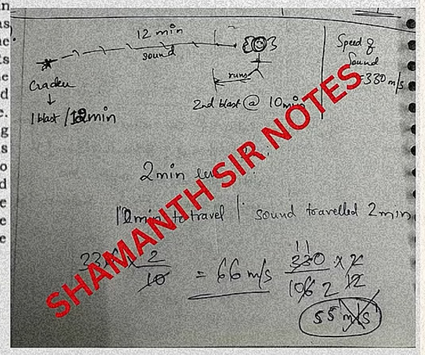
even + even = even
odd + odd = even
odd + even = odd
even × even = even
even × η = even
2 × η = even
odd × odd = odd

SHAMANTH SIR NOTES

An explosion takes place at a certain distance from an army camp. As soon as the sensor in the camp receives the sound of the explosion, a drone starts flying towards the spot of explosion. The drone clicks a picture from the spot and the camp receives it at the same time. Immediately another drone starts flying to the spot and it also sends a picture as soon as it reaches the spot. The two pictures were received at 5:02 PM and 5:05 PM, respectively. If the speed of the drones is 30 m/s, at what time did the explosion take place? Assume that the speed of sound is 300 m/s.

UPSC CSAT 2026

(a) 4:59:00 PM
(b) 4:59:02 PM
(c) 4:58:42 PM
(d) 4:56:32 PM



SHAMANTH SIR NOTES

There are four statements X, Y, Z and W. Their relations are as follows :

If X is incorrect, then so is Z; if Y is incorrect, then W is correct; if W is correct, then X is incorrect.

Which of the following is/are correct?

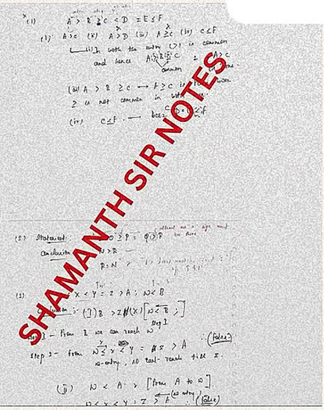
I. If X is correct, then so is Y.

II. If Z is correct, then it is not necessary that Y is correct.

Select the answer using the code given below.

UPSC CSAT 2026

(a) I only
(b) II only
(c) Both I and II
(d) Neither I nor II

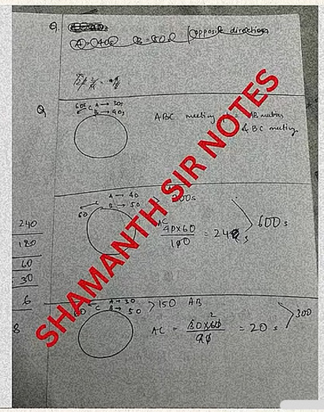


SHAMANTH SIR NOTES

X and Y are two runners who run for the same duration of time on the same circular track. They started running at the same time in the same direction with uniform speeds. When X completed 7 rounds, Y did exactly 5. After completing 5 rounds, Y changed his direction and started running in the opposite direction with speed which is double of his earlier speed. On the other hand, X continued to run with the same speed. They stopped running when X completed exactly 21 rounds. How many times did X and Y meet after they had started and before they finally stopped?

UPSC CSAT 2026

(a) 35
(b) 34
(c) 31
(d) 29



SHAMANTH SIR NOTES

Consider the following statements :

Every red is blue. Every blue is green. Every green is yellow.

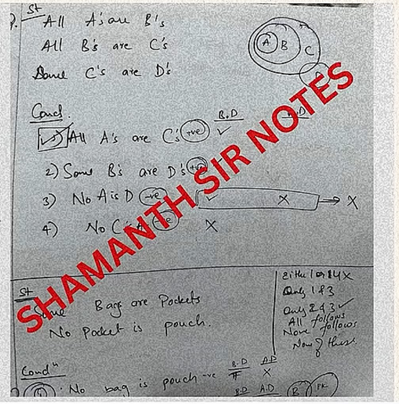
Which of the following statements denoted by P, Q and R are correct?

P. Every blue is yellow.
Q. Every red is green.
R. Every red is yellow.

Select the answer using the code given below.

UPSC CSAT 2026

(a) P and Q only
(b) Q and R only
(c) P and R only

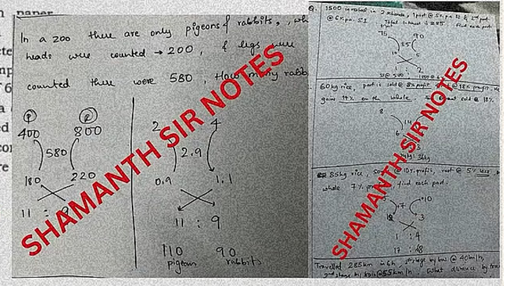


SHAMANTH SIR NOTES

In an objective type question paper, 5 marks are awarded for a correct answer and 2 marks are deducted for a wrong answer. A student attempted all the questions and got a score of 60. Had he been awarded 4 marks for a correct answer and 1 mark deducted for a wrong answer, he would have scored 180. How many questions were there in the question paper?

UPSC CSAT 2026

(a) 99
(b) 81
(c) 84
(d) 79



SHAMANTH SIR NOTES

If the product of the HCF and LCM of two distinct numbers is the cube of one of the numbers, then which of the following statements is/are correct?

UPSC CSAT 2026

I. The difference of the numbers is an even number.

II. One of the numbers is a pe square.

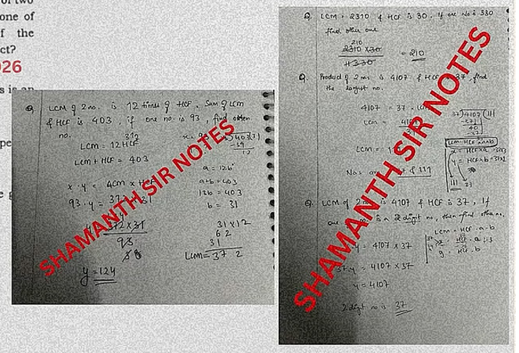
Select the answer using the code below.

(a) I only

(b) II only

(c) Both I and II

(d) Neither I nor II



SHAMANTH SIR NOTES

A person facing the East travels 4 km straight and then turns right and travels 3 km, then further turns left and travels 2 km and finally turns left and travels 3 km. The minimum distance between the final point and the initial point, and the direction in which the person is facing at the final point are, respectively

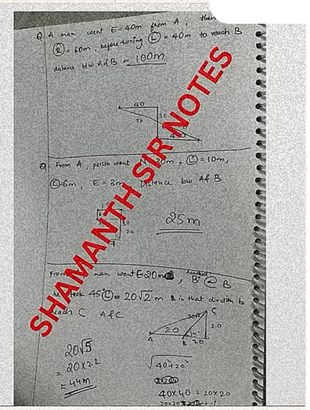
UPSC CSAT 2026

(a) 12 km, East

(b) 6 km, East

(c) 8 km, North

(d) 6 km, North



SHAMANTH SIR NOTES

The ratio of male to female workers in two companies A and B is 13 : 10 and 7 : 5, respectively. If both the companies have the same number of female workers, then what is the ratio of the total number of workers in A to those in B?

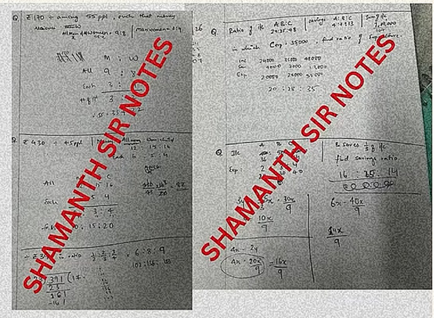
UPSC CSAT 2026

(a) 24 : 23

(b) 23 : 24

(c) 18 : 17

(d) 27 : 18



SHAMANTH SIR NOTES

A train has to complete a journey of 800 km. If it meets a minor accident, its speed becomes half of the existing speed. If there is a mechanical defect, the speed becomes one-fourth of the existing speed. On its way, the train meets with a minor accident after 200 km; and 400 km thereafter, it develops a mechanical defect. Had the train developed the mechanical defect after 200 km and met the minor accident 400 km thereafter, it would have taken 4 more hours to reach its destination. What was the original speed of the train in km per hour?

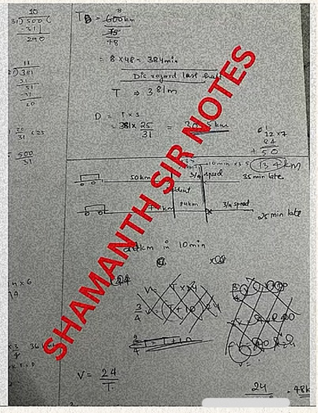
(a) 200

UPSC CSAT 2026

(b) 190

(c) 150

(d) 100



SHAMANTH SIR NOTES

How many three-digit numbers can be expressed as an integral power of 2?

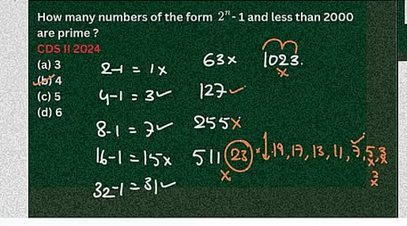
(a) 1

UPSC CSAT 2026

(b) 2

(c) 3

(d) 4



How many numbers of the form $2^n - 1$ and less than 2000 are prime?

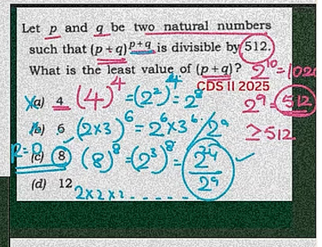
CDS II 2024

(a) 3

(b) 4

(c) 5

(d) 6



Let p and q be two natural numbers such that $(p+q)^{p+q}$ is divisible by 512. What is the least value of $(p+q)$?

CDS II 2025

(a) 4

(b) 6

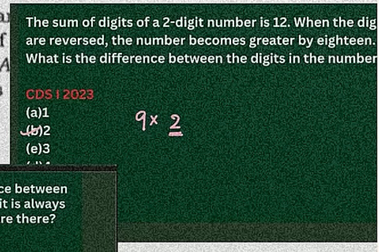
(c) 8

(d) 12

A is a 2-digit number with different digits. B is also a 2-digit number a obtained by reversing the digits of $A - B$ is a multiple of 27, where A how many such different A's possible?

UPSC CSAT 2026

(a) 6



The sum of digits of a 2-digit number is 12. When the dig are reversed, the number becomes greater by eighteen. What is the difference between the digits in the number

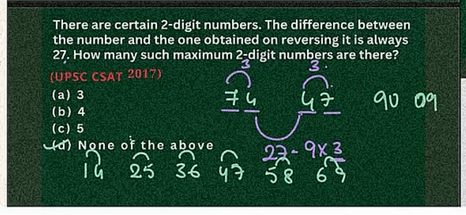
CDS I 2023

(a) 1

(b) 2

(c) 3

(e)



There are certain 2-digit numbers. The difference between the number and the one obtained on reversing it is always 27. How many such maximum 2-digit numbers are there?

(UPSC CSAT 2017)

(a) 3

(b) 4

(c) 5

(d) None of the above

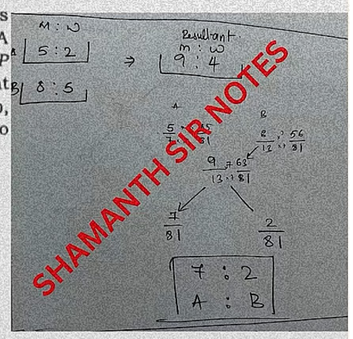
An alloy P contains 20% copper and 80% zinc by weight. Another alloy Q contains 60% copper and 40% zinc by weight. A third alloy R is to be prepared from P and Q so that it contains equal amount of copper and zinc. In what ratio, amounts of P and Q be mixed in order to get R? UPSC CSAT 2026

(a) 1 : 3

(b) 3 : 1

(c) 2 : 3

(d) 3 : 2



SHAMANTH SIR NOTES

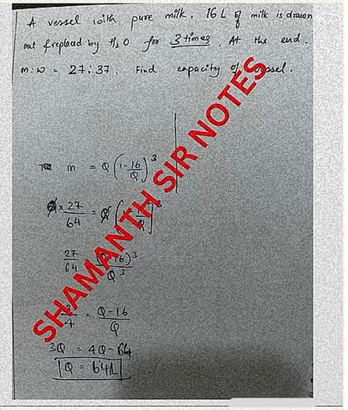
There are two chemicals which do not react with each other. A container contains 10 litres of the chemical A. One litre of this chemical is removed from it and one litre of the chemical B is poured. Then one litre of the mixture is removed from the container and one litre of B is poured. If this process of replacing one litre of the mixture by one litre of B is performed once more, then what is the volume of B that is present in the container approximately (in percentage)? UPSC CSAT 2026

(a) 25

(b) 27

(c) 29

(d) 31



SHAMANTH SIR NOTES

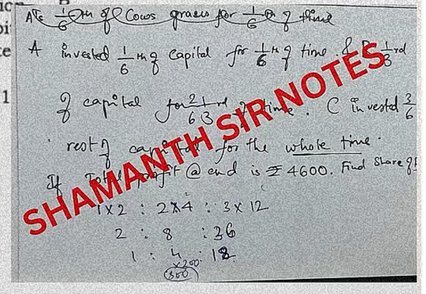
Three partners A, B and C entered into a business. A invested one-third of the capital for one-third duration, B invested one-fourth of the capital for one-fourth duration. C invested remaining capital for the whole duration. Out of a profit of ₹1 how much profit will C get? UPSC CSAT 2026

(a) ₹12,000

(b) ₹10,000

(c) ₹12,500

(d) ₹10,750



SHAMANTH SIR NOTES