

Studybox Doon

RIMC Mock test 3 Maths

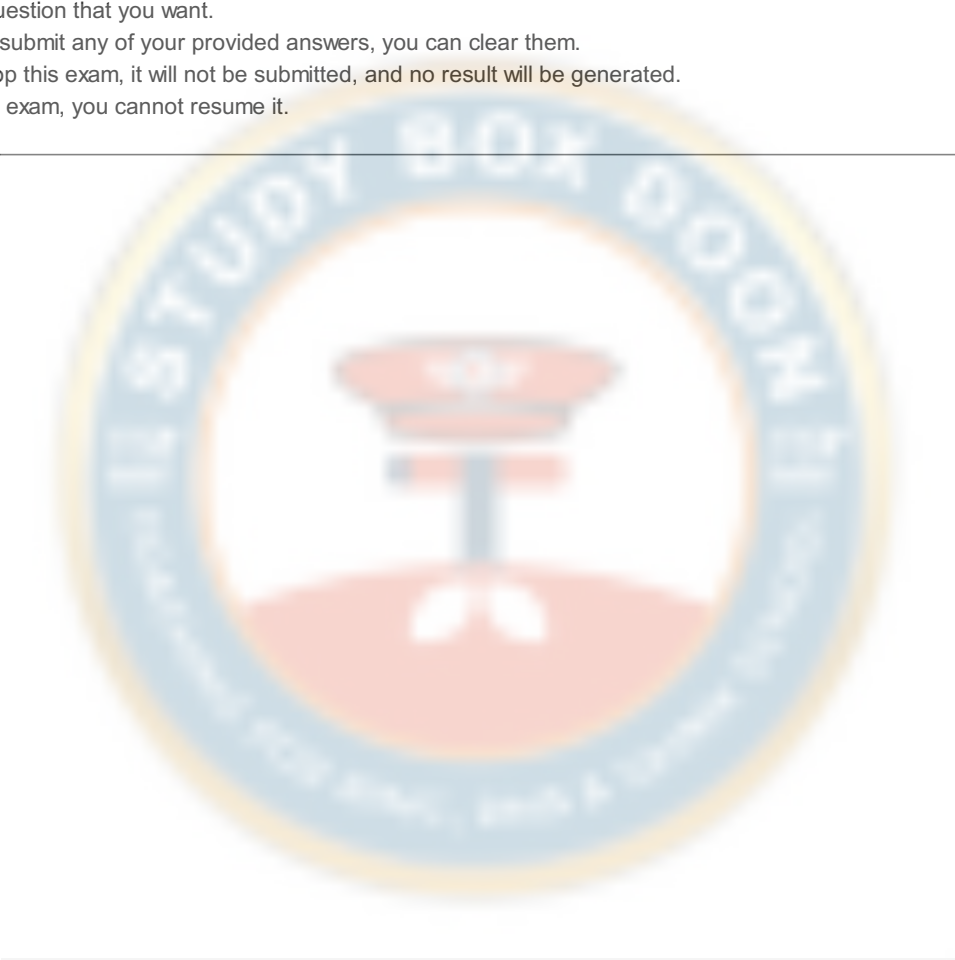
Exam ID: 220

Name: _____

Date: _____

Exam Instructions

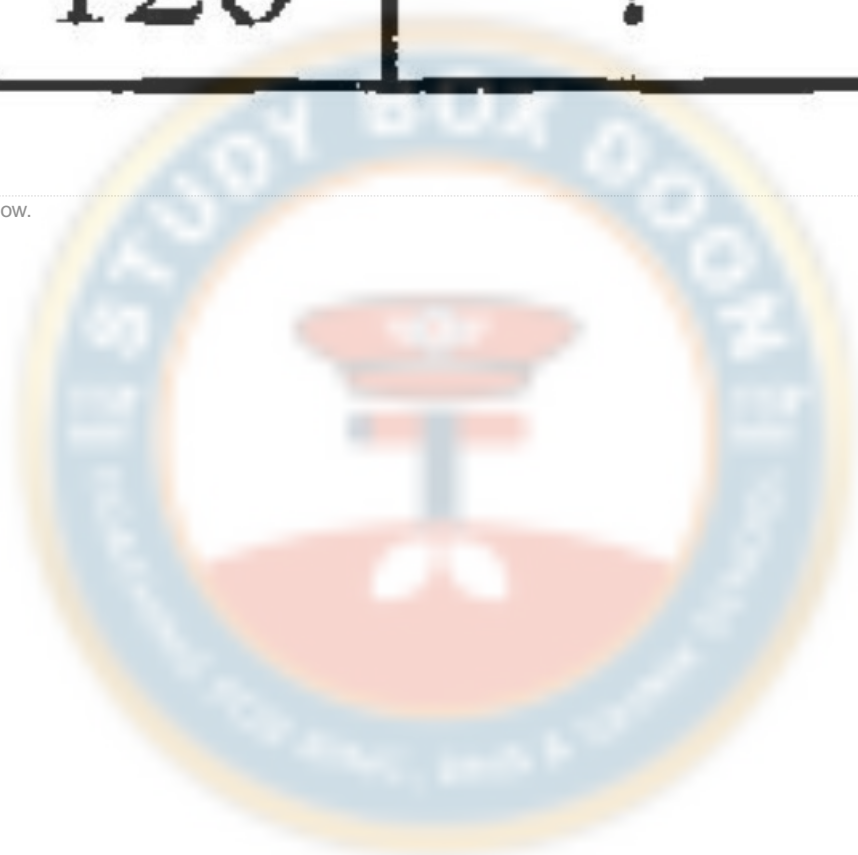
- 1. The timer has been set for the exam, and a countdown will display the remaining time. When the timer runs out, the exam will end automatically. No further action will be required after that.
- 2. You can flag any question that you want.
- 3. If you don't want to submit any of your provided answers, you can clear them.
- 4. If you choose to drop this exam, it will not be submitted, and no result will be generated.
- 5. Once you finish the exam, you cannot resume it.



What number should replace the question mark?

6	5
126	?

Please write your answer below.



If 50% of $(x - y) = 40\% \text{ of } (x + y)$, then what percentage of x is y ?

Please write your answer below.



In a shooting competition, Gyan receives Rs 5 if he hits the mark and pays Rs 2 if he misses it. He tried 60 shots and was paid Rs 13. How many times did he hit the marks?

Please write your answer below.



Find the area of ring whose outer and inner radii are 20 cm and 15 cm respectively.

.....
Please write your answer below.



The ratio of the radii of two cylinders is 2:3 and ratio of their heights is 5:3. The ratio of their volumes will be?

Please write your answer below.



A man brought a certain number of books for Rs 600. He sold $\frac{1}{4}$ of them at 5% loss. At what price should he sell the remaining books so as to gain 10% on the whole.

Please write your answer below.



What is the least natural number which when divided by the numbers 3,5,6,8,10 and 12 leaves in each case a remainder 2 but when divided by 13 leave no remainder.

Please write your answer below.



The value of a machine depreciates every year by 10%. What will be its value after 2 years if its present value is Rs 50000.

Please write your answer below.



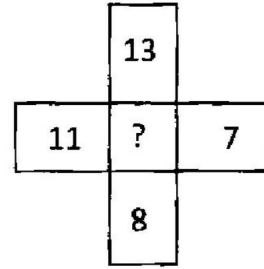
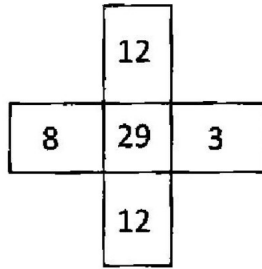
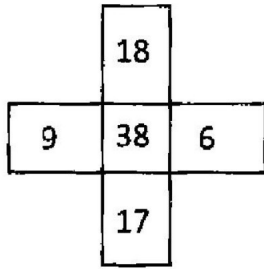
A square park has each side 50m. At each corner of park, there is a flower bed in the form of a quadrant of radius 7m, as shown in figure. Find the area of remaining part of park.

□

Please write your answer below.



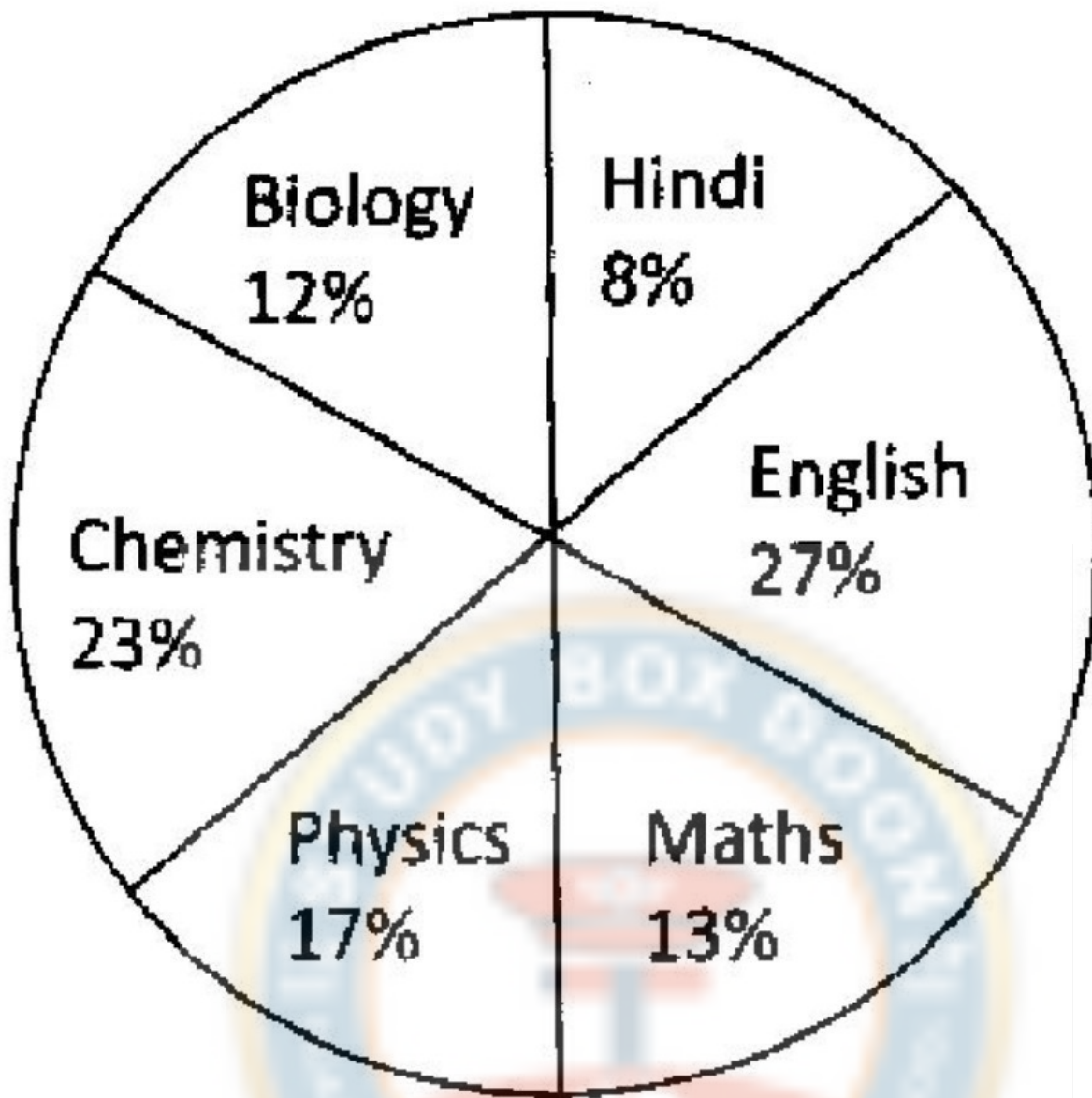
Fill in the question mark.



Please write your answer below.



The following pie chart represents a total number of 1800 teachers. If two & ninth of the teachers who teach physics is female, then number of male Physics teachers is approximately what percent of the total number of teachers who teach chemistry.



Please write your answer below.

Question: 12 of 30

QID: 11902

Marks: 10

A man borrowed a certain sum of money and paid it back in 2 years into installments of Rs. 3000 and Rs 2362.5. If the rate of compound interest was 5% p.a. payable annually. What sum did he borrow?

Please write your answer below.



A solid cylinder has total surface area of 462 m^2 . If its curved surface area is one & third of its total surface area then find the volume of the cylinder.

Please write your answer below.



A bucket of 15 liter is filled through a tap at the rate of 1 lit/min. After 5 minutes the bucket develops a crack with leakage rate of 10ml/sec. Find the time required to fill the bucket.?

Please write your answer below.



Ajay donated $\frac{1}{10}$ th of his money to a school, $\frac{1}{6}$ th of the remaining to a church and the remaining money he distributed equally between his two children. If each child gets Rs 75,000 how much money did Ajay originally have?

Please write your answer below.



Om started a business by investing Rs. 2,50,000. During the first three successive years, he earned a profit of 5%, 10% and 12% per annum respectively. If in each year, the profit was added on the capital at the end of the previous year, calculate his total profit after 3 year.

Please write your answer below.



If 7 men working 6 hrs a day take 12 days to complete a task, then how many days will 3 men working 8 hrs a day take to do the same work?

Please write your answer below.



Draw a pie & chart of the data given below:

The time spent by a child during a day:--

Sleep - 8 hrs

School - 6 hrs

Home & work - 4 hrs

Play - 4 hrs

Others - 2 hrs

Please write your answer below.



Two pipes A and B can fill a tank in 24 min and 32 min respectively. Both the pipes are opened together. After how much time pipe B should be closed so that the tank is full in 9 min?

Please write your answer below.



If $a + b + c = 0$, find the value of

$$\frac{1}{x^a + x^{-b} + 1} + \frac{1}{x^b + x^{-c} + 1} + \frac{1}{x^c + x^{-a} + 1}$$

Please write your answer below.



What is co-prime numbers? Write two pairs of co-prime numbers.

Please write your answer below.



Evaluate: ☐

Please write your answer below.



7 5 6
Arrange $\overline{8}^7$, $\overline{6}^5$, $\overline{7}^6$ in descending order.

Please write your answer below.



If $x^2 + \frac{1}{x^2} = 51$. Find the value of $x^3 - \frac{1}{x^3}$

Please write your answer below.



Find the value of x for the equation:

$$\frac{(2+x)(7-x)}{(5-x)(4+x)} = 1$$

Please write your answer below.



Nakul starts his journey to his school by scooter at 9 am and reaches his school at 1 pm, if he drives the scooter at a speed of 30 km/hr. By how much should he increase the speed of the scooter so that he can reach the school by 12 noon?

Please write your answer below.



Laxmi is cashier in a bank. She has currency notes of denominations Rs 100, Rs 50 and Rs 10. The ratio of the number of these notes is 2:3:5. The total cash with Laxmi is Rs 4,00,000. How many notes of each denomination does she have?

Please write your answer below.



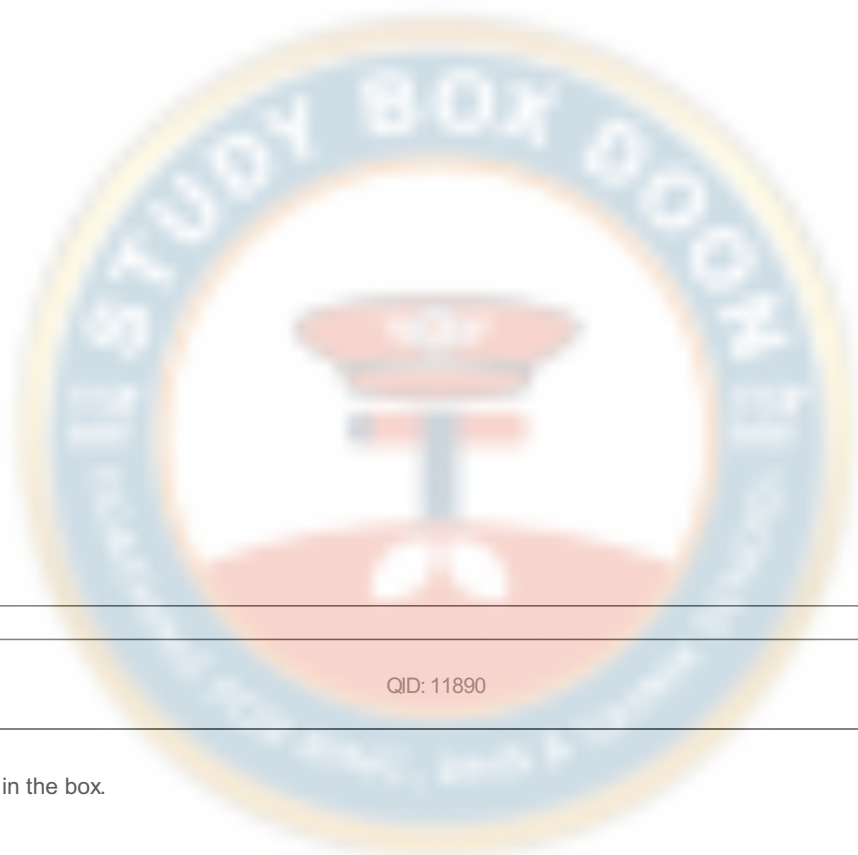
Monica, Veronica and Rachab begin to jog around a circular stadium. They complete their revolutions in 42s, 56s and 63s respectively. After how long seconds will they be together at the starting point?

Please write your answer below.



A boat goes 30 Km upstream and 44 Km downstream in 10 hours. In 13 hour it goes 40 Km upstream and 55 Km downstream. Determine the speed of the stream and that of the boat in still water.

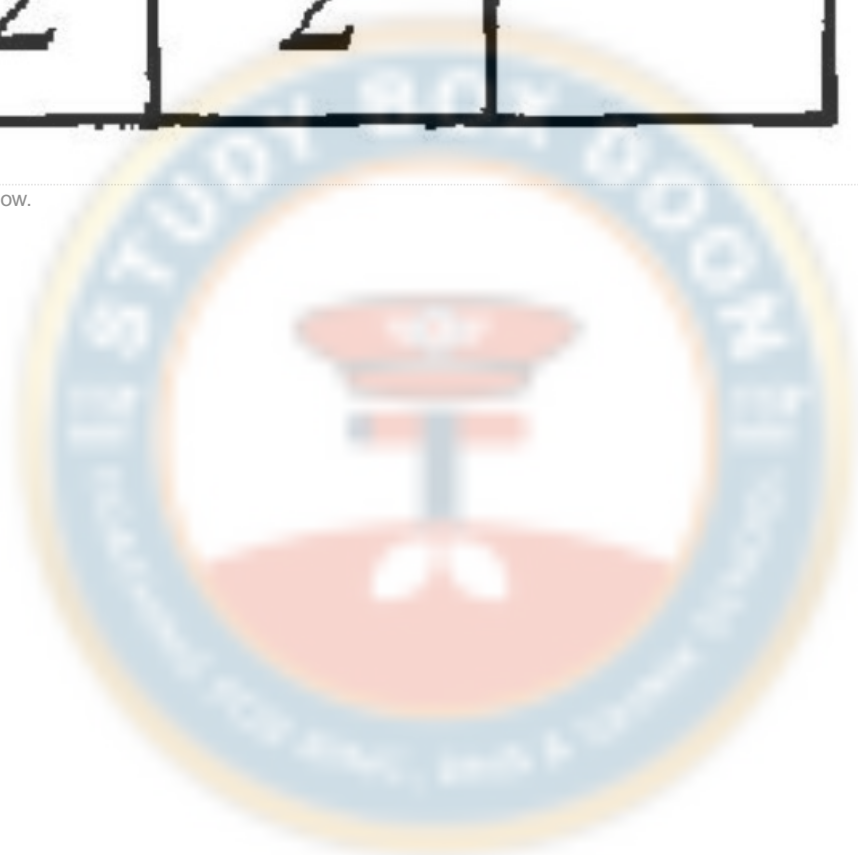
Please write your answer below.



Find the missing number in the box.

8	3	21
6	5	25
12	2	

Please write your answer below.



— END OF QUESTION PAPER —

Answer Key

No	Question Type	QID	Correct Answer
Question - 1	Essay (Evaluted by Admin)	11891	Essay Type Question
Question - 2	Essay (Evaluted by Admin)	11892	Essay Type Question
Question - 3	Essay (Evaluted by Admin)	11893	Essay Type Question
Question - 4	Essay (Evaluted by Admin)	11894	Essay Type Question
Question - 5	Essay (Evaluted by Admin)	11895	Essay Type Question
Question - 6	Essay (Evaluted by Admin)	11896	Essay Type Question
Question - 7	Essay (Evaluted by Admin)	11897	Essay Type Question
Question - 8	Essay (Evaluted by Admin)	11898	Essay Type Question
Question - 9	Essay (Evaluted by Admin)	11899	Essay Type Question
Question - 10	Essay (Evaluted by Admin)	11900	Essay Type Question
Question - 11	Essay (Evaluted by Admin)	11901	Essay Type Question
Question - 12	Essay (Evaluted by Admin)	11902	Essay Type Question
Question - 13	Essay (Evaluted by Admin)	11903	Essay Type Question
Question - 14	Essay (Evaluted by Admin)	11904	Essay Type Question
Question - 15	Essay (Evaluted by Admin)	11905	Essay Type Question
Question - 16	Essay (Evaluted by Admin)	11906	Essay Type Question
Question - 17	Essay (Evaluted by Admin)	11907	Essay Type Question
Question - 18	Essay (Evaluted by Admin)	11908	Essay Type Question
Question - 19	Essay (Evaluted by Admin)	11909	Essay Type Question
Question - 20	Essay (Evaluted by Admin)	11910	Essay Type Question
Question - 21	Essay (Evaluted by Admin)	11881	Essay Type Question
Question - 22	Essay (Evaluted by Admin)	11882	Essay Type Question
Question - 23	Essay (Evaluted by Admin)	11883	Essay Type Question
Question - 24	Essay (Evaluted by Admin)	11884	Essay Type Question
Question - 25	Essay (Evaluted by Admin)	11885	Essay Type Question
Question - 26	Essay (Evaluted by Admin)	11886	Essay Type Question
Question - 27	Essay (Evaluted by Admin)	11887	Essay Type Question
Question - 28	Essay (Evaluted by Admin)	11888	Essay Type Question
Question - 29	Essay (Evaluted by Admin)	11889	Essay Type Question
Question - 30	Essay (Evaluted by Admin)	11890	Essay Type Question

--- END OF ANSWER KEY ---