



1. If the number 97215A6 is divisible by 11, find the smallest whole number in the place of A.
2. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest?
3. If $5:3 = 15:x$, then find x .
4. A fruit seller buys apples at the rate of ₹12 per dozen and sells them at the rate of 15 for ₹12. Find out his percentage gain or loss.
5. Find the HCF of $3/16, 5/12, 7/8$.
6. $2011 \times 2011 = \underline{\hspace{2cm}}$
7. At present, the ratio between the ages of Arun and Deepak is 4 : 3. After 6 years, Arun's age will be 26 years. Deepak's present age is $\underline{\hspace{2cm}}$
8. Determine the sum of the first 35 terms of an A.P if $t_2 = 2$ and $t_7 = 22$
9. If $a=3, r=3$ then $T_5 = \underline{\hspace{2cm}}$
10. When 3 is added to the numerator and denominator of a fraction P/Q , it becomes equal to $4/5$. If $Q-P=2$, then $P+Q=\underline{\hspace{2cm}}$
11. If a man is travelling at 36 km/h, then how much distance will he cover in 30 sec?
12. Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was Simran's share in the profit?
13. The value of a machine depreciates at the rate of 10% every year. It was purchased 3 years ago. If its present value is Rs. 8748, its purchase price was ?
14. The sum of two numbers is 24 and their product is 143. Find the sum of their squares.
15. Time taken by A to finish a piece of work is twice the time taken by B and thrice the time taken by C. If all three of them work together, it takes them 2 days to complete the entire work. How much work was done by B alone?
16. It takes two pipes A and B, running together, to fill a tank in 6 minutes. It takes A 5 minutes less than B to fill the tank, then what will be the time taken by B alone to fill the tank?
17. A person travels from one place to another at 30 km/hr and returns at 120 km/hr. If the total time taken is 5 hours, then find the Distance.
18. The ages of 3 brothers are in a ratio 3:5:11. If the difference between the ages of the youngest and the eldest brother is 24 years, find the total of their ages.
19. If eight men and 12 boys can complete a piece of work in twelve days, in what time will 40 men and 45 boys complete another piece of work three times as great, supposing sixteen men can do as much work in 8 hours as 12 boys can do in 24 hours?
20. The average marks scored by the students of section A is 82. The average marks scored by students of section B is 77. The average marks of both section combined is 79.5. If there are 45 students in section A, find the number of students in section B.