

1. A chord of a circle has length $3n$, where n is a positive integer. The segment cut off by the chord has height n . What is the smallest value of n for which the radius of the circle is also a positive integer?
A. 4. B. 16. C. 8. D. None of these
2. The age of a man is 3 times that of his son. 15 years ago, the man was 9 times as old as his son. What will be the age of the man after 15 years
45 years B. 60 years. C. 75years. D. 65 years. E. 50 years
3. The ratio of males and females in a city is 7:8 and the percentage of children among males and females is 25% and 20% respectively. If the number of adult females in the city is 156800. What is the total population?
A. 245000. B. 367500. C. 196000. D. 171500. E. 372400
4. A trader marks his goods such that he can make 32% profit and after giving 12% discount. However the customer availed 20% discount instead of 12%. What is the new profit percentage of trader?
A.20%. B. 44%. C. 30%. D. 28.8%. E. 14.5%
5. 2, 3, 8, 27, 112, ?
A 156 B. 224. C. 375. D. 480. E. 565
6. Remainder when $(41 * 42)$ is divided by 43
A.5. B.42. C.41. D.2. E.0
7. Find the remainder when 21^{875} is divided by 17
A.13. B.4. C. 21. D.0. E. Cannot be determined
8. A dishonest dealer marks up the price of his goods by 20% and gives a discount of 10% to his customer. He also uses a 900 grams weight instead of a KG. Find his percentage profit?
A. 8%. B. 12%. C. 20%. D. 16%. E. None of these
9. The value of the machine depreciates every year by 10%. It was purchased 3 years ago. If it's present value is Rs. 8748, its purchase price was?
A. 10000. B. 11372. C. 12000. D. 12500
10. In the month of January the railway police caught 4,000 ticketless travellers. In February, the number Rose by 5%. abe, due to constant vigil by the polish and railway staff, the number reduced by 5% and in April it further reduced by 10%. The total number of ticketless travellers caught in the month of April was.
A. 3125. B. 3255. C. 3575. D. 3591
11. Three men, four women and six children can complete a work in 7 days. A woman does double the work a Man does and a child does how the work a man does. How many women alone can complete this work in 7 days.
A. 7. B. 8. C. 12. D. Cannot be determined. E. None of these
12. A invested rupees 76000 in a business. After few months, B joined him with rupees 57000. At the end of the year, the total profit was divided between them in the ratio 2 : 1. After how many months did B join?
A. 7. B. 8. C. 4. D. 6
13. What is the greatest possible positive integer n if 8^n divides 44^{44} without leaving a remainder

A. 14. B. 29. C. 32. D. 15

14. Of a set of 30 numbers the average of first 10 numbers is equal to the average of last 20 numbers. Then the sum of last twenty numbers is ?

A. 2* sum of first ten number

B. 2* sum of last ten numbers

C. Sum of first ten numbers

D. Cannot be determined

15. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 4 km. And then he goes back 10 km straight. Now in which direction is he from the starting place ?

A) South-East

B) North-West

C) South

D) West

16.