

A 78.9×10^{-9} B 7.89×10^{-7} C 789×10^9 D 7.89×10^7

14. The value of the expression $(\frac{1}{3})^3 \times (\frac{-2}{5})^2 \times (\frac{-3}{2})^3$ is
 A 1 B 0 C $\frac{1}{50}$ D $\frac{-1}{50}$

15. The value of $\frac{5^{0.25} \times 125^{0.25}}{256^{0.10} \times 256^{0.15}}$ is
 A $\frac{2}{5}$ B $\frac{5}{4}$ C $\frac{25}{2}$ D $\frac{25}{16}$

16. The value of the expression $(8^0 - 3^0) \times (8^0 + 3^0)$ is equal to
 A 0 B 1 C 6 D 5

17. What is the roman numerals for 1999 ?

18. What number does the Roman numerals MDCLXVI represent ?

19. Express 7 in Gumulgal number system .

20. Express 785495 in Chinese number system .

21. Find the smallest number by which 49000 must be divided to get a perfect cube ?

22. Find the cube root of the sum of consecutive odd numbers without doing calculation
 381+383+385+387.....+417+419

23. Find square root by long division method a) 859329 b)11881

24. Three numbers are in ratio 2:3:5 .The sum of their squares is 608 . Find the numbers .

25. Solve a) $\frac{243^1 \times 11^4 \times 1000}{2^3 \times 5^3 \times 11^3 \times 3^4}$ b) $\frac{5^7 \times 6^5 \times 1254}{3^5 \times 10^5}$

26. The moon is about 3.84×10^5 km away from Earth .A rocket travels at a speed of 1.2×10^3 km/h .How long it take the rocket to reach the Moon ?

27. Find value of

$$\left\{ \frac{4^{m+\frac{1}{4}} \times \sqrt{2 \cdot 2^m}}{2\sqrt{2^{-m}}} \right\}^{1/m}$$

28. Convert to roman numerals a) 3645 b) 4999 c) 2367 d) 99
29. Convert to Hindu numerals a) MCCCLXIX b) DCCLXVI c) CDLXVI
30. Without converting to Hindu numerals find the product of a) $V \times L$ b) $L \times D$
31. Add the following without converting to Hindu numerals a) CCXXXII + CCCXIII
B) CCCLXV + DCCLXXIV
32. Convert to base 5 number system a) 189 b) 413 c) 277
33. If $\frac{5^m \times 5^3 \times 5^{-2}}{5^{-5}} = 5^{12}$ then find value of m .
34. If $5^{3x-1} \div 25 = 125$ then find value of x .
35. Express the following numbers in standard form.
(i) 0.0000000000085
(ii) 0.00000000000942
(iii) 6020000000000000
(iv) 0.00000000837