

1. How many natural number lies between 35^2 and 36^2 ?

2. Find the value of

$$\sqrt{248 + \sqrt{52 + \sqrt{144}}}$$

3. Find the sum of

$1 + 3 + 5 + 7 + \dots$ upto 47

4. Express 81 as sum of first nine consecutive odd numbers.

5. By what smallest number 216 must be divided so that the quotient is a perfect square? Also find the square root of the quotient.

6. Find the smallest number by which 3600 must be multiplied so that the number will be a perfect cube? Also find cube root of the new number.

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

8. By long division method find square root of
a) 12769 b) 8464

9. ~~Represent~~ Represent in Roman numerals
a) 999 b) 1576 c) 1999
d) 99 e) 1213 f) 3998
g) 2367

10. Represent in Hindu numeral

a) CXL b) LXXV c) CL
d) XC e) LXII f) CCXXIV
(g) DCLXVI (h) XLV
(i) MCLXIX (j) MTCMXCIX
(k) MDCLXVI

11. Find product of

a) VXL b) LXD
c) ~~LXXXV~~ X LXXV x VII

12. Find the sum of

a) $\text{MMCXXI} + \text{DCLXIV}$

b) $\text{CXLI} + \text{LXII}$

13. ~~Find~~ Convert to Hindu numerals

a) UKasar - UKasar - UKasar - urapon

b) UKasar - urapon

14. Represent in base-5 system

a) 3200 b) 2586 c) 439

15. Represent in Rod numerals (Chinese number system)

a) 5397 b) 785 c) 72349