6th – Knowing Our Numbers I

Place value: The place value of a digit in a given number is the value of the digit because of the place or the position of the digit in the number.

In our Indian System of Numeration we use ones, tens, hundreds, thousands and then lakhs and Crores. Commas are used to mark thousands.

In the International System of Numeration we have ones, tens, hundreds, thousands, and then millions.

1. Writes the place value of the digit which is underlined in each of the following?
(a) 2,6̲8,481 (b) 83,29,5̲76 (c) 4,3̲0,976
2. Give the following numbers in expanded form.
(a) 5,36,704 (b) 78,96,594 (c) 24,00,505
3. Express the following in standard form.
(a) 7,00,000 +80,000 +4000 +400 + 8
(b) 80,00,000 + 40,000 +3000 + 20
(c) 6,00,00,000 + 50,000 + 800 + 5
4. Express the following numbers in words.
(a) 5,76,897 (b) 56,83,765 (c) 45,00,56,006
5. Place commas and correctly write the numerals according to Indian system:
(a) Eight lakh thirty-six thousand sixty-three
(b) Eighty five lakh forty eight thousand twenty six
(c) Five crore five lakh eighty eight thousand eight
6. Insert commas and correctly write in expanded form according to International system:
(a) 99895112 (b) 65389653 (c) 32187637

Comparing Numbers : When two different numbers are given, there can be only one possibility. Either one of them is greater than the other or you can state that one of them is smaller than the other. Two different numbers can never have the same value and thus be equal.

1. Arrange the following numbers in ascending order.
(a) 24,68,487; 7,89,540; 1,34,53,879; 78,989; 4807
(b) 7,86,978; 5,86,298; 5,46,789; 5,89,979; 4,65,948
2. Arrange the following numbers in descending order.
(a) 6,78,56,467; 34,76,967; 56,94,543; 56,92,743
(b) 2,35,927; 3,95,327; 2,23,927; 3,72,227
3. Introduce >, < or = in the given pairs of numbers.
(a) 5,98,567 ____ 98,476 (b) 1,23,457 ____ 6,87,987
(c) 2,34,645 ____ 5,86,576 (d) 13,78,654 ___ 13,76,689
4. Write the greatest 7-digit number having four different digits.
5. Give five examples where the number of things counted would be more than 6-digit number.
6. Without repetition make the greatest and smallest 4-digit number of: 9,3,4,6.
7. Place value of 9 in 9,83,04,600 is _____
8. Write the place value of the digit written in bold:
(i) **3**28 (ii) **4**37 (iii) **8**03 (iv) **7**19 (v) **2**06 (vi) **9**87 (vii) **1**675 (ix) **2**3456 (x)**9**648
9. Write the face value of the digit written in bold:
(i) 328 (ii) **4**37 (iii) 80**3** (iv) 7**1**9 (v) 20**6** (vi) **9**87 (vii)34**7**8 (viii) 20**0**8
10. Find the place value of "K" in the number K78952. Given that K = 2x and x = 3.

11. Give the difference of the place value and face value of the digit 3 in 613728.
12. Give the difference of the place value and face value of the digit 3 in 632563
13. Estimate the following products (by general rule):
a) 271 x 362 (b) 5271 x 3411
(c) 32 x 488 (d) 451 x 200 (e) 457 X 238
14. Estimate the following (by rounding off to nearest hundreds):
(a) 6,941 (b) 6,320 (c) 416 (d) 126 (e) 109 (f) 202
(g) 146 (h) 7,684 (i) 8,311 (j) 986
15. Estimate the following (by rounding off to nearest thousands):
(a) 2,456 (b) 1,810 (c) 25,564 (d) 7,210 (e) 6,499 (f) 62,535
16. The smallest 4 digit number with different digits is _____ .
17. Write the greatest 4 digit number without repetition: 7, 3, 4, 5
18. Round nearest to thousand: 4521
19. Find the greatest number instantly: 3741, 32948, 200, 6000, 103
20. Find the greatest number instantly: 5243, 1903, 5467, 7862
21. Round nearest to hundred: 1456.

Use of operations in Arithmetic operations

22. Find the approximate value of following:
(a) 3847 + 8348 (b) 7845 + 3423 (c) 9423 – 3284 (d) 673 × 7

Using brackets

23. Simplify: (a) 6 × (10 + 8) (b) 14 × (20 -8) (c) 100 × (20 + 120)
24. Solve the followings:
a) 5 (5 – 3) b) 20 (40 – 32) c) (11 + 20)(31 + 30)
d) (1 + 6) + 10 e) 2 x (1 + 3) (10 + 12) x (8 + 6)