Chapter-1 Knowing our numbers

Exercise 1.1

Q.1 Write each of the following in numeral from.

(i) Eight thousand twelve = 8,012

(ii) Seventy thousand fifty three = 70,053

(iii) Five lakh seven thousand four hundred six = 5,07,406

(iv) Six lakh two thousand nine = 6,02,009

(v) Thirty lakh eleven thousand one = 30,11,001

(vi) Eight crore four lakh twenty five = 8,04,00,025

(vii) Three crore three lakh three thousand three hundred three = 3,03,03,303.

(viii) Seventeen crore sixty lakh thirty thousand fifty seven = 17,60,30,057.

Q.2 Write the following numbers in words in the Indian system of numeration.

(i) 42,007 is written as Forty two thousand seven

(ii) 4,05,045 is written as Four lakh five thousand forty five.

(iii) 35,42,012 is written as Thirty five lakh forty two thousand twelve.

(iv) 7,06,04,014 is written as seven crore six lakh four thousand fourteen.

(v) 25,05,05,500 is written as Twenty five crore five lakh five thousand five hundred.

(vi) 5,50,50,050 is written as Five crore fifty lakh fifty thousand fifty.

(vii) 5,03,04,012 is written as Five crore three lakh four thousand twelve.

Q.3 Insert commas in the correct positions to separate periods and write the following numbers in words

(i) 4375 (ii) 24798 (iii) 857367

(iv) 9050784 (v) 10105607 (vi) 10000007

(vii) 910107104

Solution : (i) 4,375 – Four thousand three hundred seventy five.

(ii) 24,798 → Twenty four thousand seven hundred ninety eight.

(iii) 8,57,367 → Eight lakh fifty seven thousand Three hundred sixty seven.

(iv) 90,50,784 → Ninety lakh Fifty thousand seven hundred eighty four.

(v) 1,01,05,607 → one crore one lakh five thousand Six hundred seven.

(vi) 1,00,00,007 → one crore seven.

(vii) 91,01,07,104 → Ninety one crore one lakh seven thousand one hundred four.

Q.4 Write each of the following in expanded Notation.

(i) 3057 (ii) 12345 (iii) 10205 (iv) 235060

Solution (i) $3057 = (3\times1000)+(0\times100)+(5\times10)+(7\times1)$

(ii) $12345 = (1\times10000)+(2\times1000)+(3\times100)+(4\times10)+(5\times1)$

(iii) $10205 = (1\times10000) + (0\times1000) + (2\times100) + (0\times10) + (5\times1)$

(iv) $235060 = (2\times100000) + (3\times10000) + (5\times1000) + (0\times100) + (6\times10) + (0\times1)$

Q.5 Write the corresponding numerals for each of the following.

(i) $7\times10000 + 2\times1000 + 5\times100 + 9\times10 + 6\times1 = 72,596$

(ii) $4\times100000 + 5\times1000 + 1\times100 + 7\times1 = 4,05,107$

(iii) $8\times1000000 + 3\times1000 + 6\times1 = 80,03,006$

(iv) $5\times10000000 + 7\times1000000 + 8\times1000 + 9\times10 + 4 = 5,70,08,094$

Q.6 Find the place value of the digit 4 in each of the following.

(i) 74983160 (ii) 8745836

Solution : (i) $4\times10,00,000 = 40,00,000$

(ii) $4\times10,000 = 40,000$

Q.7 Determine the Product of the Place values of two fives in 450758.

Solution: The Place value of first left most five is $5 \times 10,000 = 50,000$

The Place value of second left most five is $5 \times 10 = 50$

So, Product $= 50,000 \times 50$
$= 25,00,000$

Q.8 Determine the difference of the Place values of two 7's in 257839705.

Solution: The Place value of first left most 7 is $7 \times 10,00,000 = 70,00,000$

The Place value of second left most 7 is $7 \times 100 = 700$

So, required difference $= 70,00,000 - 700$
$= 69,99,300$

Q.9 Determine the difference between the Place value and the face value of 5 in 78654321.

Solution: The Place value of 5 is $5 \times 10,000 = 50,00$

The face value of 5 is 5

Difference $= 50,000 - 5 = 49,995$

Q.10 Which digits have the same face value and Place value in 92078634?

Solution As we know that only one's digit and zeroes of the numbers having the same face value and place value.

So, here in the number 92078634, 0 and 4 are the digits having same face value and Place value.

Q.11 How many different 3 digit number can be formed by using the digits 0, 2, 5 without repeating any digit in the number.

Solution As, for forming three digit number zero can not come in hundred's place.

So, three digit numbers are 205, 250, 502 and 520.

So, four numbers can be formed.

Q.12 Write all possible 3-digit numbers using the digits 6, 0, 4 when

(i) repetition of digits is not allowed

(ii) repetition of digits is allowed.

Solution: (i) 604, 640, 460, 406, when repetition is not allowed.

(ii) when repetition is allowed, then possible numbers are 400, 406, 460, 466, 404, 444, 446, 464, 600, 604, 644, 640, 646, 664, 606, 660, 666.

Q.13 Fill in the blanks

(i) 1 lakh = 10 Ten thousand

(ii) 1 lakh = 100 Thousand

(iii) 1 lakh = 1000 hundred

(iv) 1 lakh = 10000 Ten

(v) 1 crore = 10 Ten lakh

(vi) 1 crore = 100 lakh

(vii) 1 crore = 1000 ten thousand

(viii) 1 crore = 10000 thousand

(ix) 1 crore = 100000 hundred

(x) 1 crore = 1000000 ten