

SESSION : 9
CLASS : IV
SUBJECT : MATHEMATICS
CHAPTER NUMBER : 2
CHAPTER NAME : NUMBERS
**SUBTOPIC : EXPANDED AND SHORT FORM,
EXERCISE-2(C) Q.NO. 1,2 & 3**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

- Enable the students to understand the expanded form and short form of numbers.

Expanded Form and Short Form

In expanded form, a number is written as the sum of the place values of each of its digits.

The form in which we generally write the numbers is called the short form.

Expanded Form and Short Form

Example - 1

Write 571038 in the expanded form.

Solution

$$\begin{aligned}571038 &= 5 \text{ lakh} + 7 \text{ ten thousands} + 1 \text{ thousand} + 0 \text{ hundreds} + 3 \text{ tens} + 8 \text{ ones} \\ &= 5 \times 1,00,000 + 7 \times 10,000 + 1 \times 1,000 + 0 \times 100 + 3 \times 10 + 8 \times 1 \\ &= 5,00,000 + 70,000 + 1,000 + 0 + 30 + 8\end{aligned}$$

L	TTh	Th	H	T	O
5,	7	1,	0	3	8

Expanded Form and Short Form

Example - 2

Write the following in the short form.

i) $60,000 + 8,000 + 100 + 40 + 9$

ii) $8,00,000 + 20,000 + 700 + 3$

Solution

i) $60,000 + 8,000 + 100 + 40 + 9 = 68,149$

ii) $8,00,000 + 20,000 + 700 + 3$

Since, there are '0' thousands and '0' tens in the above number, its short form will be

$8,00,000 + 20,000 + 700 + 3 = 8,20,703$

Expanded Form and Short Form

Exercise – 2(C)

1. Write the following numbers in the expanded form.

Solution

$$(a) 52,743 = 5 \text{ ten thousands} + 2 \text{ thousands} + 7 \text{ hundreds} + 4 \text{ tens} + 3 \text{ ones}$$

$$= 5 \times 10,000 + 2 \times 1,000 + 7 \times 100 + 4 \times 10 + 3$$

$$= 50,000 + 2,000 + 700 + 40 + 3$$

Expanded Form and Short Form

Exercise – 2(C)

1. Write the following numbers in the expanded form.

Solution

$$(b) 2,72,631 = 2 \text{ lakhs} + 7 \text{ ten thousands} + 2 \text{ thousand} + 6 \text{ hundred} + 3 \text{ tens} + 1 \text{ ones}$$

$$= 2 \times 1,00,000 + 7 \times 10,000 + 2 \times 1,000 + 6 \times 100 + 3 \times 10 + 1$$

$$= 2,00,000 + 70,000 + 2,000 + 600 + 30 + 1$$

Expanded Form and Short Form

Exercise – 2(C)

1. Write the following numbers in the expanded form.

Solution

(c) $33,40,239 = 3 \text{ ten lakhs} + 3 \text{ lakhs} + 4 \text{ ten thousands} + 0 \text{ thousand} + 2 \text{ hundred} + 3 \text{ tens} + 9 \text{ ones}$

$$= 3 \times 10,00,000 + 3 \times 1,00,000 + 4 \times 10,000 + 0 \times 1,000 + 2 \times 100 + 3 \times 10 + 9$$

$$= 30,00,000 + 3,00,000 + 40,000 + 200 + 30 + 9$$

Expanded Form and Short Form

Exercise – 2(C)

2. Write the following in the short form.

Solution

$$(a) 2,00,000 + 60,000 + 3,000 + 900 + 2 =$$

2,63,902

$$(b) 5,00,000 + 3,000 + 20 + 7 =$$

5,03,027

$$(c) 3,00,000 + 80,000 + 70 + 5 =$$

3,80,075

$$(d) 90,00,000 + 5000 + 600 + 3 =$$

90,05,603

$$(e) 40,00,000 + 8,00,000 + 70,000 + 500 + 9 =$$

48,70,509

Expanded Form and Short Form

Exercise – 2(C)

3. Fill in the blanks.

Solution

$$(a) 87,560 = 80,000 + \underline{7,000} + 500 + \underline{60}$$

$$(b) 3,08,654 = 3,00,000 + \underline{8,000} + 600 + 50 + 4$$

$$(c) 7,60,581 = 7,00,000 + 60,000 + \underline{500} + 80 + 1$$

$$(d) 1,54,786 = 1,00,000 + \underline{50,000} + 4,000 + \underline{700} + 80 + 6$$

$$(e) 2,08,067 = 2,00,000 + \underline{8,000} + 60 + 7$$

HOME ASSIGNMENT:

- **Complete Exercise – 2(C) in your note book.**

LEARNING OUTCOME:

Students are able to know about the expanded and short form of numbers.

THANKING YOU
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