CLASS 5 Sub- Mathematics

Chapter- Large Numbers

Important points. – I. In Indian system, there are nine places grouped into four periods.

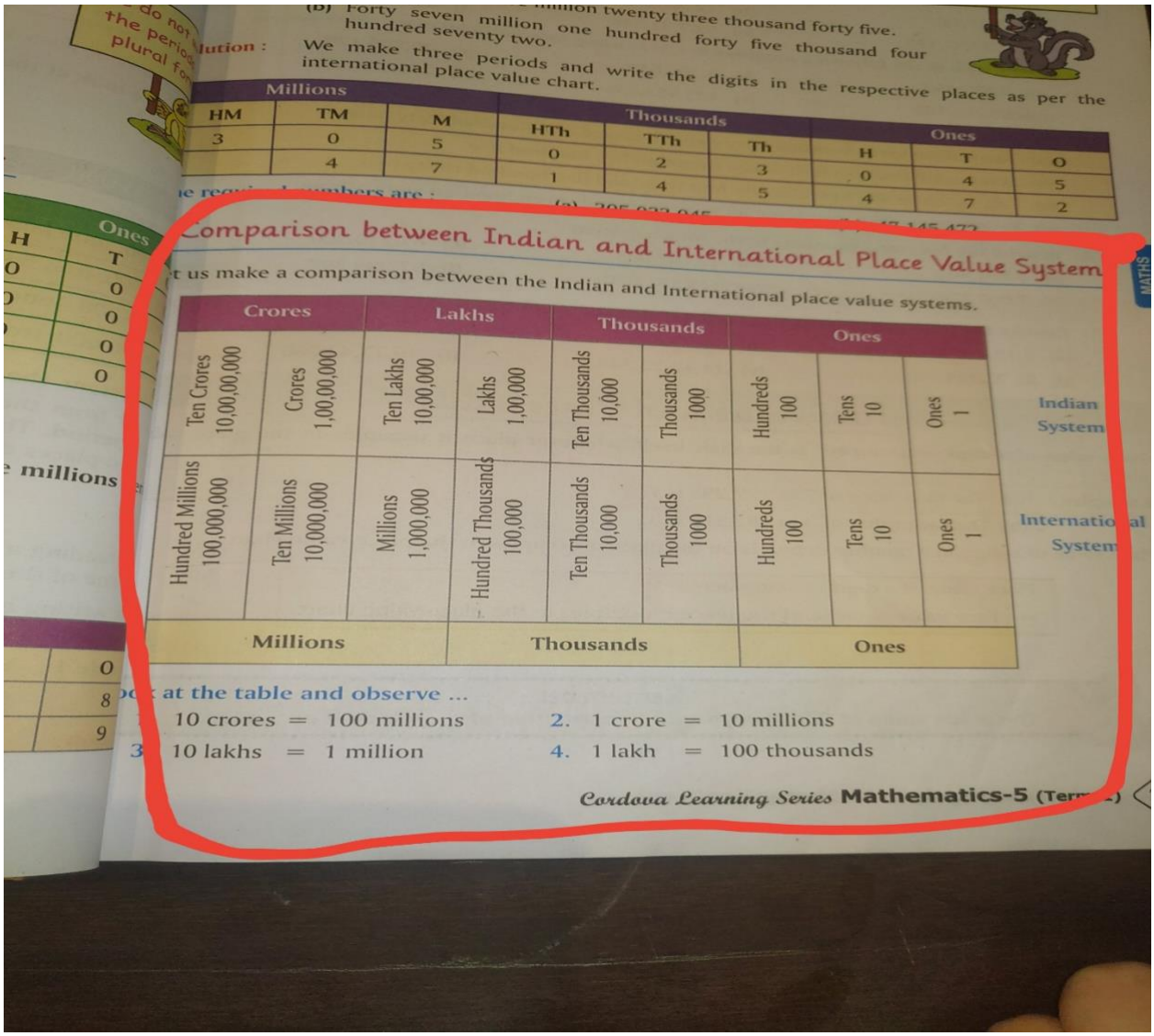
Crore	**Lakh**	**Thousands**	**Ones**

We start from the ones period and move left to the thousands period ,lakhs period and finally crores period .the ones period has three places whereas the thousands ,lakhs and crores period have two places each.

2 . In the International system ,we have nine places grouped into three periods .

Millions	**Thousands**	**Ones**

We start from the ones period and move left towards the thousands period and finally to the millions period . Each period has three places.



(B) Forty seven million one hundred forty five thousand four hundred seventy two.

Solution : We make three periods and write the digits in the respective places as per the international place value chart.

Millions			Thousands			Ones		
HM	TM	M	HTh	TTh	Th	H	T	O
3	0	5	0	2	3	0	4	5
	4	7	1	4	5	4	7	2

Comparison between Indian and International Place Value System

Let us make a comparison between the Indian and International place value systems.

	Crores		Lakhs		Thousands		Ones		
Indian System	Ten Crores 10,00,00,000	Crores 1,00,00,000	Ten Lakhs 10,00,000	Lakhs 1,00,000	Ten Thousands 10,000	Thousands 1000	Hundreds 100	Tens 10	Ones 1
International System	Hundred Millions 100,000,000	Ten Millions 10,000,000	Millions 1,000,000	Hundred Thousands 100,000	Ten Thousands 10,000	Thousands 1000	Hundreds 100	Tens 10	Ones 1
	Millions			Thousands			Ones		

Look at the table and observe ...

1. 10 crores = 100 millions
2. 1 crore = 10 millions
3. 10 lakhs = 1 million
4. 1 lakh = 100 thousands

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Draw the above table in the fair copy

Exercise-2

1.**Write each of the following numbers in words using indian place value system .**

a) 4,83,745- Four lakh eighty three thousand seven hundred forty five .

C) **38,56,989-** Thirty eight lakh fifty six thousand nine hundred eighty nine .

e) 5,67,33,888-Five crore sixty seven lakh thirty three thousand eight hundred and eighty eight.

Do the remaining parts this (b,d,f) in rough copy.

Q.2 Write the following Numbers in words using international place value system –

a) 2,896,450- Two million eight hundred ninety six thousand four hundred fifty .

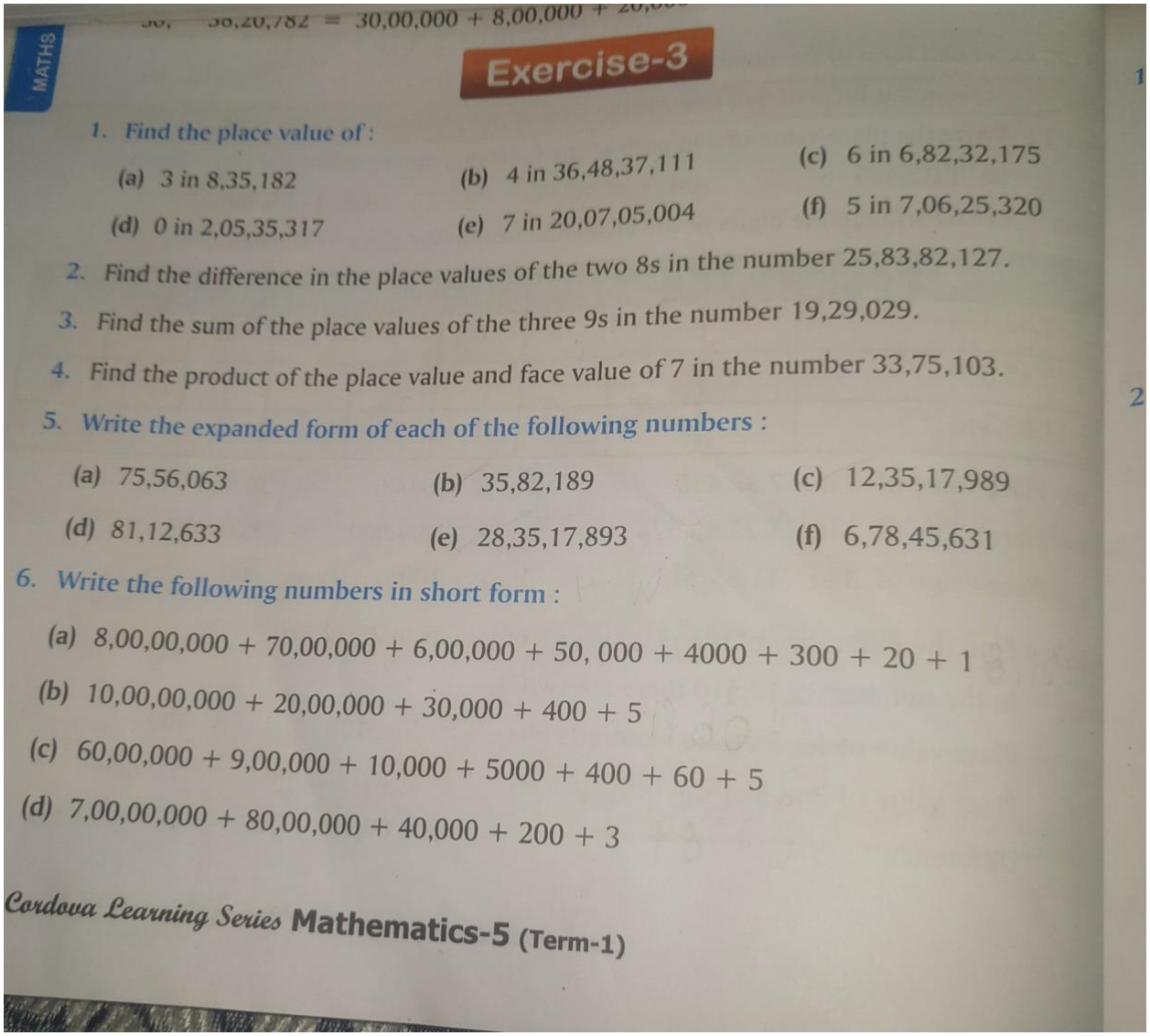
d) 98,256,188- Ninety eight million two hundred fifty six thousand one hundred eighty eight.

Practice -part b,c,e and f in rough copy .

Write important points in fair copy.

Important points-

1. Face value of a digit in a number is the digit itself irrespective of the place it occupies in the place value chart.
2. Place value of a digit in a number= Face value × value of the place it occupies in the place value chart.
3. Place value of 0 is always zero irrespective of the place it occupies.
4. Expanded form of a number is the sum of the place values of its digits.



30,20,782 = 30,00,000 + 8,00,000 + 20,...

MATHS

Exercise-3

1. Find the place value of :

(a) 3 in 8,35,182 (b) 4 in 36,48,37,111 (c) 6 in 6,82,32,175

(d) 0 in 2,05,35,317 (e) 7 in 20,07,05,004 (f) 5 in 7,06,25,320

2. Find the difference in the place values of the two 8s in the number 25,83,82,127.

3. Find the sum of the place values of the three 9s in the number 19,29,029.

4. Find the product of the place value and face value of 7 in the number 33,75,103.

5. Write the expanded form of each of the following numbers :

(a) 75,56,063 (b) 35,82,189 (c) 12,35,17,989

(d) 81,12,633 (e) 28,35,17,893 (f) 6,78,45,631

6. Write the following numbers in short form :

(a) 8,00,00,000 + 70,00,000 + 6,00,000 + 50, 000 + 4000 + 300 + 20 + 1

(b) 10,00,00,000 + 20,00,000 + 30,000 + 400 + 5

(c) 60,00,000 + 9,00,000 + 10,000 + 5000 + 400 + 60 + 5

(d) 7,00,00,000 + 80,00,000 + 40,000 + 200 + 3

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Exercise – 3

Q.1 Find the place value of –

a) 3 in 8,35,182

Sol. Place value of 3 = 30,000

b)4 in 36,48,37,111

Sol. Place value of 4 = 40,00,000

Do the remaining parts in the book itself (with pencil)

Q.2 Find the difference in the place values of the two 8s in the number 25,83,82,127.

Sol. In the number 25,83,82,127, there are two 8s.

Sol. Place value of 1st 8 at ten lakhs place = 8× 10,00,000 = 80,00,000

Place value of 2nd 8 at ten thousands place=8× 10,000=80,000

Their difference= 80,00,000-80,000=79,20,000

Q.3) Find the sum of the place values of the three 9s in the number 19,29,029 .

Solve it yourself In your rough copy.

Q.4) Find the product of the place value and face value of 7 in the number 33,75,103 .

Sol) Place value of 7 in 33,75,103 =70,000

Face value of 7 in 33,75,103= x 7

Their product =490000

Q.5 write the expanded form –

B)

35,82,189=30,00,000+5,00,000+80,000+2,000+100+80+9

C) 12,35,17,989=10,00,00,000+2,00,00,000+30,00,000+5,00,000+10,000+7,000+900+80+9

E)28,35,17,893=20,00,00,000+8,00,00,000+30,00,000+5,00,000+10,000+7000+800+90+3

Practice in rough copy (a,d,f)

Q.6) Write in short form –

a)8,00,00,000+70,00,000+6,00,000+50,000+4000+300+20+1

Sol.) 8,76,54,321

b)10,00,00,000+20,00,000+30,000+400+5

Sol. 10,20,30,405

Do the remaining parts (c and d) in the book itself with pencil

Write the following important points in your fair copy.

Important points—

I.Successor – The successor of a given number is 1 more than the number.

2. Predecessor – The predecessor of a given number is 1 less than the number.

Exercise-4

1. Write the predecessor and successor of the following numbers :

(a) 7,861,070 (b) 11,257,890 (c) 18,251,200

(d) 91,81,87,999 (e) 6, 789,989 (f) 59,69,79,899

2. Compare each of the following pairs of numbers using > , < or = :

(a) 3,75,412 ☐ 3,57,412 (b) 35,621,717 ☐ 35,621,716

(c) 1,756,215 ☐ 1,756,315 (d) 9,99,899 ☐ 9,99,998

3. Arrange the following numbers in ascending order :

(a) 11,12,13,145 ; 11,21,13,145 ; 11,12,31,154 ; 11,12,31,145

(b) 98,345,120 ; 89,345,120 ; 89,435,120 ; 98,543,120

4. Arrange the following numbers in descending order :

(a) 43,006,789 ; 43,060,789 ; 43,600,789 ; 43,600,879

(b) 61,82,14,217 ; 61,82,14,119 ; 61,82,14,911 ; 61,82,14,712

Exercise – 4

Q.1 Write the predecessor and successor of the following numbers—

a) 7,861,070

Sol. Successor = Number + 1

= 7,861,070 +1= 7,861,071

Predecessor =Number – 1

= 7,861,070 = 7,861,069

b) 11,257,890

Sol. Successor= Number + 1

= 11,257,890 + 1 =11,257,891

Predecessor =Number – 1

= 11,257,890 – 1 = 11,257,889

Do the remaining parts in the rough copy.

Q.2 Do it yourself in the book itself (with pencil).

Q.3 Arrange the following numbers in ascending order—

a) 11,12,13,145 ; 11,21,13,145 ; 11,12,31,154 ; 11,12,31,145

Sol. 11,12,13,145 ; 11,12,31,145 ; 11,12,31,154 ; 11,21,13,145.

B) Do it yourself in rough copy.

Q.4 Write the following numbers in descending order –

a) 43,006,789 ; 43,060,789 ; 43,600,789 ; 43,600,879

Sol. 43,600,879 ; 43,600,789 ; 43,060,789 ; 43,006,789

b) Do it yourself in rough copy.