

Unit :- Mathematical Operations on Whole Numbers

No. of Periods : 10



Let us illustrate all the counters in ones place and all the counters in tens place of each counting frames given above in another abacus frame as shown below.



So, write the value of in 23 + 31 in the empty cage.



Write the answer for the sum of the following numbers by representing in abacus.



- 52 + 13
 41 + 32
- 3) 24 + 23

Study clearly the page numbers 22 and 23 in the text book.

Observe the page number 24 in the text book. Understand the steps to follow when finding the sum of two numbers.

Understand the following two examples clearly.

674	3 4 5 2	Correctly simplify the first
+ 289	2448	question in exercise 3.1 which
<u>963</u>	+ 1396	is in page number 25 in the
—	7296	text book.

When adding whole numbers, the digits in the ones place of the numbers are in one column, the digits in the tens place of the numbers in one column and the digits in the hundreds place of the numbers in one column such that write and add.

• Fill the empty cages.

437	+	321	=	
212	+	324	=	
	+		=	

Answer the remaining questions in exercise 3.1 in the text book.

Study the steps of following example clearly, about subtracting a smaller whole number from a given whole number.

Let us subtract 1 874 from 8763.

Sten 1	5 13	Step 2	6 15 13 8 7 6 3
Step 1	8763	Step 2	- 1874
	- 1874		89
Step 3	16 15 13	Step 4	7 16 15 13
	8763		8763
	- 1874		- 1874
	889		6889

Study clearly the page numbers 26 and 27 in the text book about subtracting a smaller whole number from a given whole number.

Study clearly the page numbers 29 and 30 in the text book about multiplying a whole number by another whole number.

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1				3									
2				6									
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4				12									
5				15									
6				18									
7				21									
8				24									
9				27									
10				30									
11				33									
12				36									

• Fill in the following multiplication table.

Write the suitable numbers for the blanks using the multiplication table.



Complete the Exercise 3.3 in the page number 31 in the text book.

Study clearly the page numbers 31 and 32 in the text book about multiplying a whole number by 10, by 100 and by 1000.

Understand the number of zeros in the right end of answer compare with initial number when multiplying a whole number by 10, by 100 and by 1000.

• Fill in the following table.

3 x 10	30
7 x 10	
2 x 100	
15 x 100	
2 x 1000	2000
8 x 1000	
13 x 1000	

Complete the first question in Exercise 3.4 in page number 33 in the text book.

When finding the product of two numbers, the larger number is multiplied by the smaller number.

Study clearly the page numbers 32 and 33 in the text book about multiplying a whole number by another whole number. Understand the following Examples.

74	153
x 37	<u>x 65</u>
$518 \leftarrow 74 \times 7 = 518$	$7 6 5 - 153 \times 5 = 765$
$2 2 2 0 \leftarrow 74 \times 30 = 2220$	$9180 \leftarrow 153 \times 60 = 9180$
2738	9945

Complete the questions 2, 3, 4, 5, 6 and 7 in Exercise 3.4 in page numbers 33 and 34 in the text book.

Read and understand clearly the page numbers 34 and 35 in the text book about dividing a whole number by another whole number.

• Identify quotient and remainder clearly.

Study clearly the following examples.

According to the above examples, Study the page numbers 35 in the text book and confirm the steps to follow when dividing a whole number by 10, by 100 and by 1000.

Understand the following examples.

$$525 \div 7$$

$$7 \begin{bmatrix} 75 \\ 5 2 5 \\ 49 \\ 35 \\ 35 \\ 35 \\ 0 \end{bmatrix} 7x7 = 49$$

$$35 \\ 35 \\ 35 \\ 35 \\ 35 \\ 7x5 = 35 \end{bmatrix} \qquad 519 \div 12$$

$$12 \begin{bmatrix} 43 \\ 519 \\ 48 \\ 39 \\ 36 \\ 3 \end{bmatrix} 12x4 = 48$$

$$39 \\ 36 \\ 3 \end{bmatrix} 12x3 = 36$$

 $525 \div 7 = 75$

 $519 \div 12 = 43$ with a remainder of 3

The long division method can be used to divide a whole number by another whole number.

- Understand clearly Example 1 in the page number 37 in the text book.
- Complete correctly, the exercise 3.5 in page numbers 37 and 38 in the text book.