
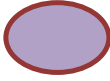




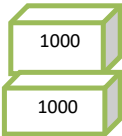
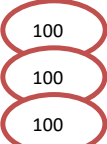
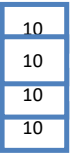


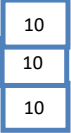
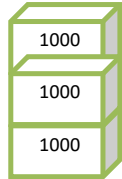
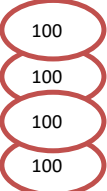
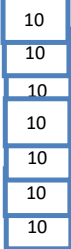
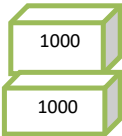
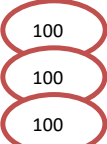
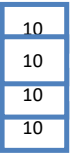


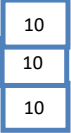
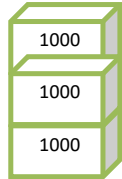
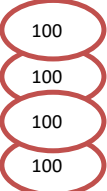
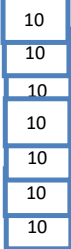
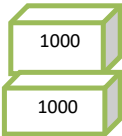
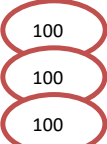
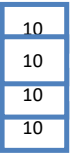


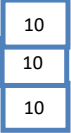
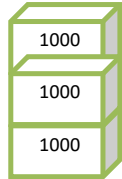
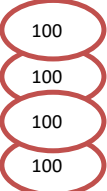
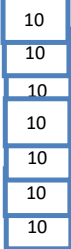


Alternate Academic Calendar for 2021-22

Class:4th

Subject: Mathematics

Month: September

Sl. no	Month/ week	Expected learning outcome	Teaching-learning Activity	Evaluation																								
01	September 1 st week	<p>Chapter3: Addition</p> <p>Adding four-digit numbers without regrouping</p>	<p>Activity:1 Encourage students to find the total cost of the things which are given below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">1000</div> </div> <div style="text-align: center;">  <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">100</div> </div> <div style="text-align: center;">  <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">10</div> </div> <div style="text-align: center;">  <div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">1</div> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div> <p style="margin-top: 10px;">₹ ₹ 2347</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Particulars</th> <th colspan="4" style="text-align: center;">Groups</th> </tr> <tr> <th style="text-align: center;">Th</th> <th style="text-align: center;">H</th> <th style="text-align: center;">Tens</th> <th style="text-align: center;">Unit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Cost of watch ₹ 2347</td> <td style="text-align: center;">  1000 1000 </td> <td style="text-align: center;">  100 100 100 </td> <td style="text-align: center;">  10 10 10 10 </td> <td style="text-align: center;"> 1 1 1 1 1 1 1 </td> </tr> <tr> <td style="text-align: center;">Cost of bag ₹ 1132</td> <td style="text-align: center;">  1000 </td> <td style="text-align: center;">  100 </td> <td style="text-align: center;">  10 10 10 </td> <td style="text-align: center;"> 1 1 </td> </tr> <tr> <td style="text-align: center;">Total ₹ 3479</td> <td style="text-align: center;">  1000 1000 1000 </td> <td style="text-align: center;">  100 100 100 100 </td> <td style="text-align: center;">  10 10 10 10 10 10 10 </td> <td style="text-align: center;"> 1 1 1 1 1 1 1 1 1 </td> </tr> </tbody> </table>	Particulars	Groups				Th	H	Tens	Unit	Cost of watch ₹ 2347	 1000 1000	 100 100 100	 10 10 10 10	1 1 1 1 1 1 1	Cost of bag ₹ 1132	 1000	 100	 10 10 10	1 1	Total ₹ 3479	 1000 1000 1000	 100 100 100 100	 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1	Activity sheet - 1
Particulars	Groups																											
	Th	H	Tens	Unit																								
Cost of watch ₹ 2347	 1000 1000	 100 100 100	 10 10 10 10	1 1 1 1 1 1 1																								
Cost of bag ₹ 1132	 1000	 100	 10 10 10	1 1																								
Total ₹ 3479	 1000 1000 1000	 100 100 100 100	 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1																								
Students are instructed to solve Activity sheet - 1																												

Adding four digit numbers with borrowing.

Activity:02 Students are asked to observe the method of adding the numbers as in the model sum and write them in the place value chart.


	Th	H	T	U
	2	3	4	7
+	1	1	3	2
	3	4	7	9

Steps:

- Digits in the units place are added first.
- Then digits in the tens, hundreds and thousands place are respectively added and written.

Students are instructed to solve Activity sheet - 2

Activity:01 Lets encourage the students to add four-digit number with carry. Find the total cost of Mobile and the bicycle.

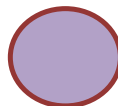
 ₹ 2839	 ₹ 3265
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First let's add symbolically.

Symbols:



1000



100

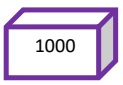
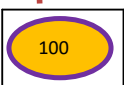

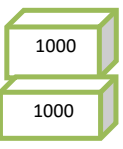
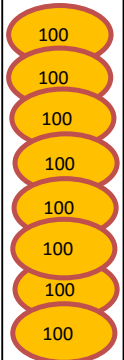
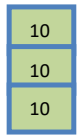

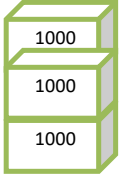
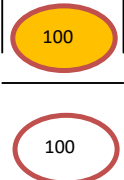
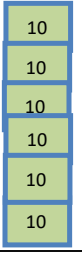

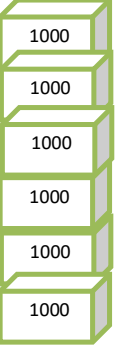




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


1

Activity sheet - 2

particulars	Groups			
	Th	H	Tens	Unit
Carry over				
Cost of mobile ₹ 2839				
Cost of bicycle ₹3265				
Total ₹ 6104				

Activity :2

Let students learn the addition by writing in place value chart.

	Th	H	T	U
				
+	2	8	3	9
	3	2	6	5
Total	6	1 1	1 0	1 4

Students are instructed to solve Activity sheet - 3

Activity sheet - 3

02 Septem
ber
second
week

Writing
word
problems
based on
place value
related to
our daily
life

Activity 1: Solve statement problems related to place value in our daily life.

Example: A shop keeper earns ₹6375 for the first day, and ₹ 2895 for the second day. What is the total amount of money collected?

	Th	H	T	U
	6	3	7	5
+	2	8	9	6
	9	2	7	1

**Activity
sheet - 4**

First day collection = ₹ 6375

Second day collection = ₹ 2896

Total collection = ₹ 9271

Total collection for two days = ₹ 9271

Students are instructed to solve Activity sheet - 4

Activity:1

Children have already learnt the addition. So they mentally and quickly expand one of the numbers and add in an order as in example.

Find the sum of 5237 and 2542.

$5237 + 2542$

$= 5237 + (2000 + 500 + 40 + 2)$

$5237 + 2000 = 7237$

$7237 + 500 = 7737$

$7737 + 40 = 7777$

$7777 + 2 = 7779$

Total = 7779

Students are instructed to solve Activity sheet - 5

**Activity
sheet - 5**

Septem
ber third
week

Subtracting
4 – digit
number
without
borrowing

Activity:1

Explain students to solve 4-digit numbers without borrowing with examples.

Th	H	T	U	
7	5	8	9	minuend
- 4	2	3	6	subtrahend
3	3	5	3	difference



Students are informed to do activity sheet-06

Activity:2 Subtract 3143 from 5647.
Here 5647 is minuend and 3143 is subtrahend. So subtract subtrahend from minuend.

Th	H	T	U	
5	6	4	7	minuend
- 3	1	4	3	subtrahend
2	4	0	4	difference

Students are informed to do activity sheet-07

Subtracting
4 – digit
number
without
borrowing

Activity :1

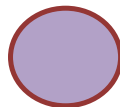
Encourage students to subtract 4-digit numbers with borrowing.

Example: $4321 - 2654 = ?$

Solve symbolically:



1000



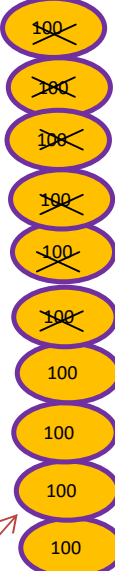
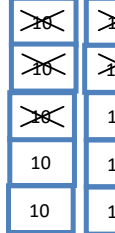

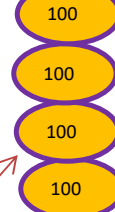
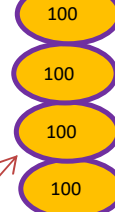
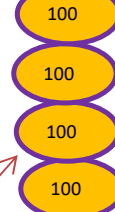
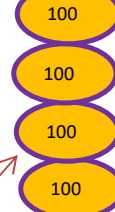
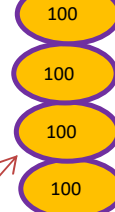
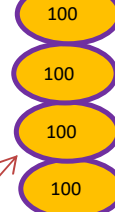
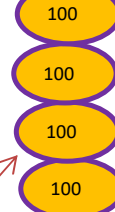
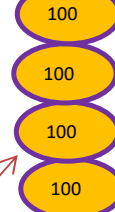
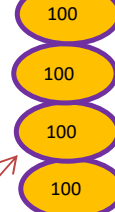
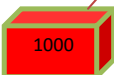








100



10



1

particulars	Groups			
	Th	H	T	U
borrow				
				
				
				
				
				
				
				
				
				
4321 2654	  	  	 	
Difference	1	6	6	7

Activity sheet-08

Activity:2

Subtract 3267 from 5074.
Here 5074 is minuend and 3267 is subtrahend.



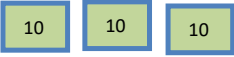
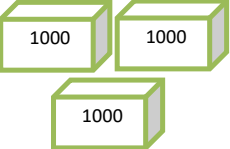
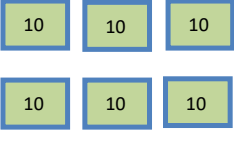
Th	H	T	U	
4	10	6	14	
5	0	7	4	minuend
- 3	2	6	7	subtrahend
1	8	0	7	difference

Students are informed to do activity sheet-08


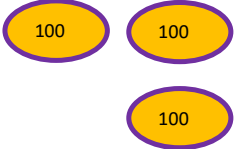
04	September fourth week	<p>subtraction of statement problems related to day today life</p> <p>Mentally able to do subtraction quickly.</p>	<p>Activity :1 Explain students subtraction of statement problems related to day today life with examples. Example: In a month a person's earning is ₹9500. He spent ₹3268 on household expenses. How much money did he save? Monthly earnings = ₹ 9 5 0 0 Monthly expenses = ₹ 3 2 6 8 Savings = ₹ 6 2 3 2</p> <p>Students are informed to do activity sheet-07</p> <p>Activity:2 Explain with example the method of subtraction by expanding the subtrahend end subtract in order.</p> <p>Example:4876-2398=? 4876-(2000+300+90+8) 4876-2000=2876 2876- 300=2576 2576- 90=2486 2476- 8=2478 Difference=2478 Let students solve activity sheet 10.</p>	<p>Activity sheet-09</p> <p>Activity sheet-10</p>
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Write these symbolic pictorials numbers in their place value chart and find their sum.

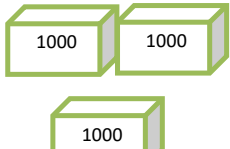
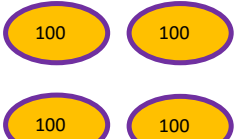
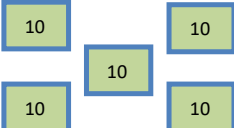
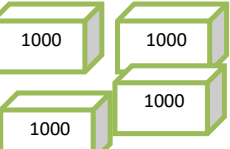
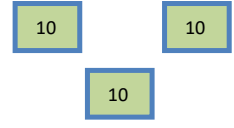
Model sum:

Thousand	Hundred	Tens	Units	Th	H	tens	unit
			1 1 1 1 1	2	2	3	5
			1 1 1 1	3	4	6	4
				5	6	9	9

1)

Thousand	Hundred	Tens	Units	Th	H	tens	unit
			1 1 1 1				
			1 1 1				

2)

Thousand	Hundred	Tens	Units	Th	H	tens	unit
			1 1 1 1				
			1 1 1				

Add given numbers according to place value:

1) **Model sum:**6039+2850 2) 3456+3210

Th	H	tens	unit
6	0	3	9
2	8	5	0
8	8	8	9

Th	H	tens	unit

3) 3487+2510

4) 4005+3642

Th	H	tens	unit

Th	H	tens	unit

5) 9876+1123

6) 3606+4063

Th	H	tens	unit

Th	H	tens	unit

7) 7050+2106

8) 8362+1535

Th	H	tens	unit

Th	H	tens	unit

Find the sum of:

Model Sum:

5197+3865

	Th	H	tens	unit
Carry	1	1	1	
	5	1	9	7
+	3	8	6	5
Sum	9	0	6	2

1) 4372+3009

	Th	H	tens	unit
+				
Sum				

2) 2499+0579

	Th	H	tens	unit
+				
Sum				

3) 2134+5878

	Th	H	tens	unit
+				
Sum				

Solve the problems:**Model sum:**

A cloth merchant sold 3675 shirts in first day. 4897 shirts sold on second day. What is the total number of shirts sold in two days?

Shirts sold on first day = 3 6 7 5

Shirts sold on second day = + 4 8 9 7

Total shirts sold = 8 5 7 2

1) In a Panchayath area there are 4567 men, 4789 women and 1234 children. What is the total population of that area?

2) A customer purchased Mixer for ₹6500 and Cooker for ₹2986. What is the total amount to be paid to the shopkeeper?

3) 5674 kg of rice was supplied to a fair price shop in the month of January. 3456 kg of rice supplied in the month of February. Find the total rice supplied in two months.

Add the numbers in the magic square row-wise, column-wise and from corner to corner. Compare the sum each time and observe the power of Magic square.

1726	1558	2398
2566	1894	1222
1390	2230	2062

Model sum:

1	7	2	6												
1	5	5	8												
+2	3	9	8												
5	6	8	2												

2) Expand the given numbers and add in an order.

<p>Model sum: 6145+2554</p> <p>6145+(2000+500+50+4)</p> <p>6145+2000=8145</p> <p>8145+500=8645</p> <p>8645+50=8695</p> <p>8695+4= 8699</p>	<p>1) 1546+6376</p>
<p>2) 2986 + 3800</p>	<p>3) 3275+2821</p>

Solve the problems as shown in model sum:

Model sum: 9684-3041) 6543-4321

Th	H	tens	unit
9	6	8	4
- 3	0	4	1
6	6	4	3

Th	H	tens	unit

1) 8369-5043

3) 9576-2345

Th	H	tens	unit

Th	H	tens	unit

2) 6666 - 3003

5) 7425-2130

Th	H	tens	unit

Th	H	tens	unit

6)803-5005

7) 6827-3800

Th	H	tens	unit

Th	H	tens	unit

8)5402-5001

9) 6789-5678

Th	H	tens	unit

Th	H	tens	unit

Subtract 3333 from 9675.

Here Minuend is	
Here Subtrahend is	
Here Difference is	

Model sum: Subtract 5005 from 8038. 1) Subtract 3800 from 6827.

Th	H	tens	unit
8	0	3	8
- 5	0	0	5
3	0	3	3

Th	H	tens	unit

2) Subtract 5001 from 5402.

3) Subtract 5678 from 6789.

Th	H	tens	unit

Th	H	tens	unit

4) Subtract 4242 from 5252.

5) Subtract 4800 from 6737.

Th	H	tens	unit

Th	H	tens	unit

6) Subtract 5001 from 5402.

7) Subtract 5701 from 6701.

Th	H	tens	unit

Th	H	tens	unit

Model sum: Subtract 3467 from 6254

Here **6254** is **Minuend** and **3467** is **Subtrahend**.

Th	H	tens	unit
5	11	14	14
6	2	5	4
- 3	4	6	7
2	7	8	7

1) Subtract 2345 from 3210

Th	H	tens	unit

2) Subtract 3707 from 5643.

Th	H	tens	unit

3) Subtract 5348 from 7005.

Th	H	tens	unit

Model sum:

5805 kg of rice was supplied to a fair price shop in the month of November. 4955 kg of rice is sold in that month. Find the quantity of rice remaining at the end of that month.

Quantity of rice supplied	5 8 0 5
Quantity of rice sold	- 4 9 5 5
Remaining rice	0 8 5 0
∴ Quantity of remaining rice 850 kg	

Solve the problems given below:

1) 8000 litre of water is required to fill a water tank completely. Now it has 6398 litre of water, how much, more water is required to fill the tank?

2) Manu has savings bank account in a co-operative bank. ₹4567 was credited by her father to this account. Manu has withdrawn ₹2989 to buy a bicycle. How much of money is remaining in that account?

3) Out of 8425 Covid patients, 6837 are recovered. Find the remaining number of covid patients.

Expand subtrahend and find the difference:

<u>Model sum:</u> 3690 -1264 3690- (1000 + 200 + 60 + 4) 3690 – 1000 = 2690 2690 - 200 = 2490 2490 - 60 = 2430 2430 - 4 = 2426	1) 7865-6399
2) 8760-6899	3) 4321-3999
4) 1000-999	5) 9009 - 7997
6) Subtract 3555 from 4444	7) Subtract 3756 from 6754

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