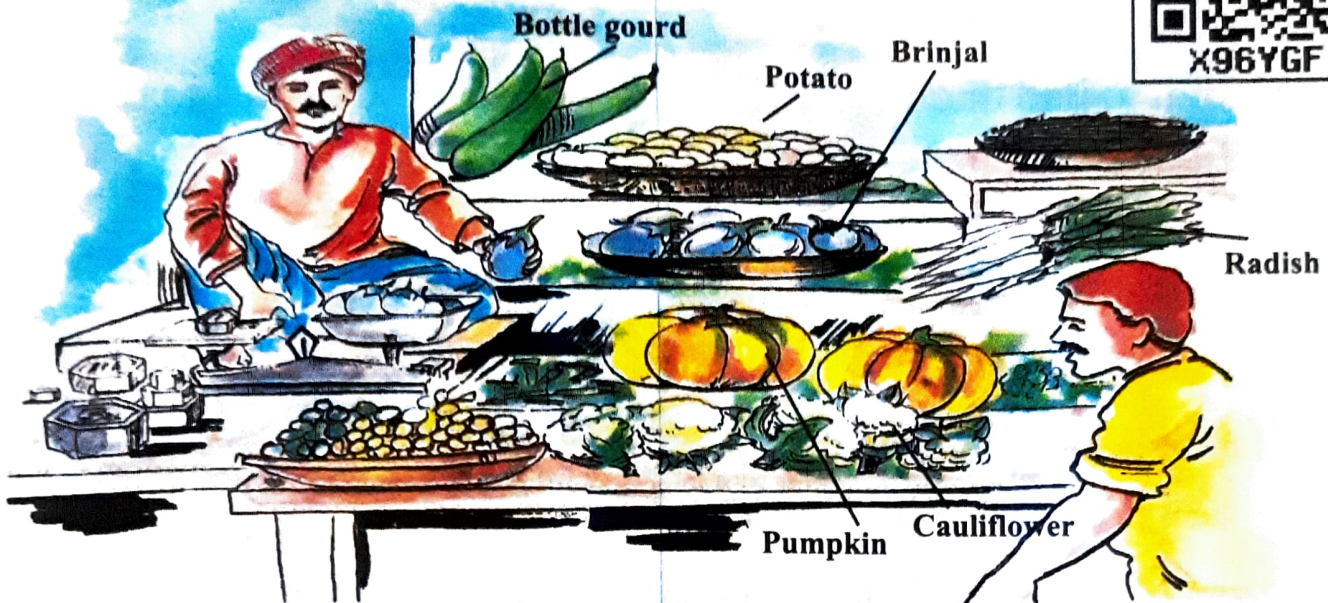


Lesson - 3

Subtraction

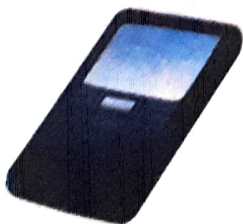


Aditya went to market. He had 325 rupees. He had to buy 10kg of potato and 5kg of brinjal. Shopkeeper told him- "Potato is 8 rupees per kg and brinjal is 10 rupees per kg". Aditya bought 10 kg of potato and 5 kg of brinjal.

Can you tell-

- How many rupees did Aditya spend?
- How many rupees were left with Aditya?
- Prepare some more such questions of subtraction and make them practise-

Shabnam is very happy. Today her father is going to buy her a mobile phone from the market. Shabnam went to the mobile phone shop with her father in the evening. Shabnam's father has 3975 rupees. There are colourful mobile phones of different costs in the shop.



₹ 3260



₹ 3460



₹ 3874



₹ 4077

- Can you tell, mobile phones of which costs can Shabnam's father buy?
- If Shabnam bought the mobile phone of ₹ 3874, how many rupees are left with her father?
- If Shabnam had liked the mobile phone of ₹ 4077, how many rupees her father would have needed more?

○ **Let us see-**

Total amount with Shabnam's father ₹ 3975

Cost of the first mobile phone ₹ 3260

Cost of the second mobile phone ₹ 3460

Cost of the third mobile phone ₹ 3874

Cost of the fourth mobile phone ₹ 4077

- Numbers smaller than the number ₹ 3975 are-
3260, 3460, 3874

Therefore Shabnam's father can buy only one mobile phone among the mobile phone of costs ₹ 3260, ₹ 3460, ₹ 3874

- Total amount with Shabnam's father ₹ 3975
Cost of the mobile bought by Shabnam is ₹ 3874.
Therefore, amount left with Shabnam's father-

Th	H	T	O	
3	9	7	5	rupees
- 3	8	7	4	rupees
0	1	0	1	rupees

Amount left after buying the mobile phone of ₹ 3874 = ₹ 101

- How many rupees will Shabnam's father need more if she liked the mobile phone costing ₹ 4077?

$$\begin{array}{r}
 4 \ 0 \ 7 \ 7 \text{ rupees} \\
 -3 \ 9 \ 7 \ 5 \text{ rupees} \\
 \hline
 0 \ 1 \ 0 \ 2 \text{ rupees}
 \end{array}$$

On buying the mobile phone of ₹ 4077, Shabnam's father would have been short of ₹ 102.

The smallest and the greatest number formed with the given four digits-
How will you find the difference between the smallest and the greatest four digit numbers formed with 3, 5, 4 and 7?

Look-

We write digits in decreasing order to get the greatest number- 7543

We write digits in increasing order to get the smallest number- 3457

To find the difference, we subtract smaller number from the greater

number-	Th	H	T	O
	7	5	4	3
	-3	4	5	7
	<u>4</u>	<u>0</u>	<u>8</u>	<u>6</u>

If zero is also included in the given four digits, how will you form the greatest and the smallest number?

Let us do-

To form the greatest number with the given four digits 1,0,8,5. We will write digits in decreasing order as we have done before. As- 8510. To form smallest number, we write the smallest digit other than zero at the extreme left. Like- 1058

- Now you also form the greatest and the smallest number with the digits 2, 5, 0, 8

We have Learnt

- When we write digits in descending order we get the greatest number of the same digits.
- When we write digits in ascending order we get the smallest number of the same digits.
- If zero is also included in the given digits, to form the greatest number we do the same as we have done earlier. While making the smallest number, first we write the smallest digit other than zero at the extreme left. Now write zero. Write remaining digits in ascending order.



Exercise

1. Solve-

$$\begin{array}{r} 523 \\ - 120 \\ \hline \end{array}$$

$$\begin{array}{r} 754 \\ - 341 \\ \hline \end{array}$$

$$\begin{array}{r} 841 \\ - 257 \\ \hline \end{array}$$

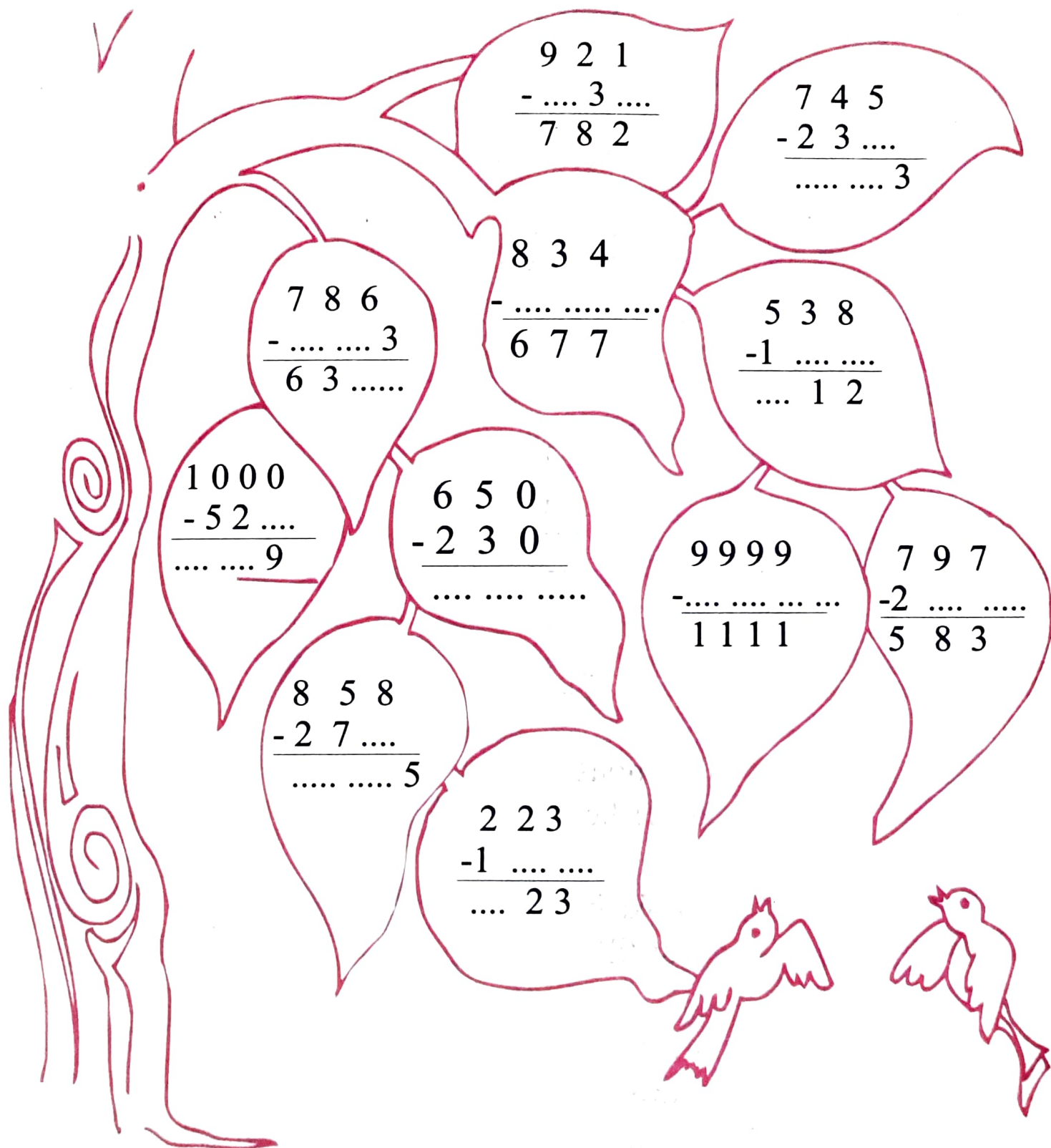
$$\begin{array}{r} 9838 \\ - 7232 \\ \hline \end{array}$$

$$\begin{array}{r} 7628 \\ - 5672 \\ \hline \end{array}$$

$$\begin{array}{r} 8081 \\ - 3897 \\ \hline \end{array}$$

- 2- Aditya has to build a house of two rooms. 4600 bricks are required to build one room. If he has only 2500 bricks, how many more bricks are required?
- 3- There were 9476 books in a shop at the beginning of a month. 7541 books were sold out till the end of the month. How many books were left?
- 4- If the cost of a television set is ₹ 9548 and of a mobile phone is ₹ 7485. Which is more costly and by how much?
- 5- The population of a village in a certain year was 5798. After 3 years it became 6589. By how much has the population increased?
- 6- Find the difference between the greatest and the smallest number formed with the digits 4, 2, 0, 9.

7. Fill in the blanks with appropriate digits-



8. Now decorate the tree with the colours of your choice.

1. Write the given numbers in words-

- | | | |
|---------|---------|---------|
| a. 4131 | b. 2370 | c. 1720 |
| d. 8002 | e. 8489 | f. 6079 |

2. Write in figures-

- Five thousand three hundred twenty five
- Nine thousand seven hundred
- Four thousand one

3. Write the numbers in expanded form-

Example- $3248 = 3000 + 200 + 40 + 8$

- a. 7320 b. 463 c. 7001 d. 5100

4. Write the short form of the given numbers

Example- $2000 + 500 + 30 + 7 = 2537$

- $3000 + 600 + 30 + 7 =$
- $5000 + 70 + 2 =$
- $8000 + 90 + 1 =$
- $1000 + 200 + 30 + 5 =$

5. Find the place value

- | | |
|--------------|--------------|
| a. 4 in 4085 | b. 2 in 3210 |
| c. 3 in 5432 | d. 4 in 7364 |

6. Find the difference between the place value of 3 at both the places in 4332.
7. Find the sum of the place values of 9 at both the places in 9459.
8. Form the greatest and the smallest number of 4 digits with 4, 3, 2, 5 using each digit only once. First add the greater number with the smaller number then subtract the smaller number from the greater number.

9. Complete by adding-

$$\begin{array}{r} 38 \dots \\ + 2 \dots 2 \\ \hline \dots 99 \end{array}$$

$$\begin{array}{r} \dots 83 \\ + 238 \\ \hline 1021 \end{array}$$

$$\begin{array}{r} 654 \dots \\ + 8 \dots 62 \\ \hline 15002 \end{array}$$

$$\begin{array}{r} 10 \dots 3 \\ + \dots 257 \\ \hline \dots 330 \end{array}$$

10. Complete by subtracting-

$$\begin{array}{r} \dots 54 \\ - 532 \\ \hline 222 \end{array}$$

$$\begin{array}{r} 750 \dots \\ - 3 \dots 58 \\ \hline 4048 \end{array}$$

$$\begin{array}{r} 6800 \\ - 142 \dots \\ \hline 5 \dots 80 \end{array}$$

11. Bheema needs 2020 bricks to construct a platform and 1879 bricks to pave a road out side his house. How many total bricks are needed?
12. Kamla bought four chairs and two tables for ₹ 2348. If the cost of four chairs is ₹ 824, what will be the cost of two tables?

Give enough oral and mental practice of addition and subtraction to the students.