

**SESSION : 20**

**CLASS : 3**

**SUBJECT : MATHEMATICS**

**CHAPTER NUMBER: 4**

**CHAPTER NAME : SUBTRACTION**

**SUBTOPIC : SUBTRACTION OF A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER  
(WITH REGROUPING)**

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**CHANGING YOUR TOMORROW**

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## **LEARNING OBJECTIVE :**

**The children will**

- \* Develop conceptual understanding**
- \* Identify subtraction problems that require regrouping**
- \* Perform subtraction of a 3-digit number from a 3-digit number with regrouping**

# **SUBTRACTION**

## **A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)**

**Children can you say different  
3-digit numbers?**

**See the examples now → 965, 782,  
351, 540, 865, 394.....**

# **SUBTRACTION**

## **A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)**



Now let us take any two 3-digit numbers from the previous slide, say 782 and another 3-digit number, say 394. Now let us recall how to subtract.

# SUBTRACTION

A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

OUR TWO NUMBERS  
ARE....

782

and

394

# **SUBTRACTION**

## **A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)**

**REMEMBER**

The first thing we should keep in mind is that we should write the greater number at the top first and then the smaller number below it and then subtract. Because we can only subtract a smaller number from a bigger number, we cannot subtract a bigger number from a smaller.

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

$$782 - 394$$

At first, we have to subtract the ones place. As 2 is smaller than 4, so we have to borrow 1 ten and add with 2. So, it becomes  $2 + 10 = 12$   
 $12 - 4 = 8$ . We should write 8 in the ones place.

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

$$782 - 394$$

As we borrowed 1 ten to add with ones, we have  $8 - 1 = 7$ . Then we have to subtract the tens place. We have now 7 in tens place. 7 is smaller than 9, so we have to borrow 1 hundred and add with 7. So, it becomes  $7 + 10 = 17$   $17 - 9 = 8$ . We should write 8 in the tens place.



## SUBTRACTION

### A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

$$\begin{array}{r} 782 \\ - 394 \\ \hline \end{array}$$

As we borrowed 1 hundred to add with tens, we have  $7 - 1 = 6$ . Then we have to subtract the hundreds place. We have now 6 in hundreds place. 6 is bigger than 3 Then subtract the hundreds place  $6 - 3 = 3$ . So we will write 3 in the hundreds place.

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

Now let us write in column:

$$\begin{array}{r} 6 \\ \cancel{7} \quad \cancel{8} \quad \cancel{2} \\ - \quad 3 \quad 9 \quad 4 \\ \hline 3 \quad 8 \quad 8 \end{array}$$

Diagram illustrating the regrouping process for the subtraction  $678 - 394$ . The number 678 is shown with a 6 in the hundreds place, a 7 in the tens place, and an 8 in the ones place. The number 394 is shown below it with a 3 in the hundreds place, a 9 in the tens place, and a 4 in the ones place. The digits 7, 8, and 2 are crossed out with diagonal lines. Above the 7, the number 17 is written, with an arrow pointing from the 7 to the 17. Above the 8, the number 12 is written, with an arrow pointing from the 8 to the 12. To the right of the 17, the expression  $10 + 7$  is written. To the right of the 12, the expression  $10 + 2$  is written.

**Subtract the ones:**

$$10 + 2 = 12 - 4 = 8 \text{ ones}$$

**Subtract the tens:**

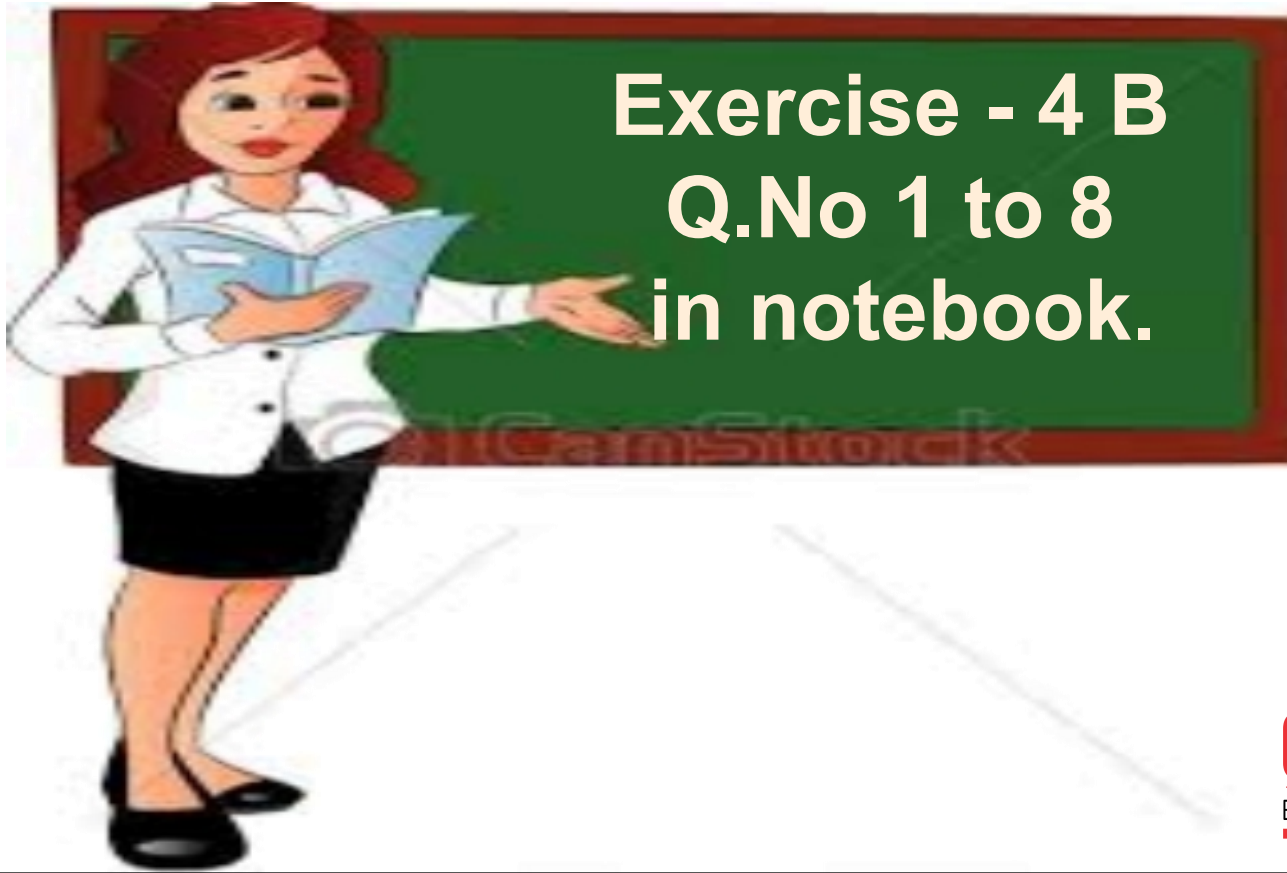
$$10 + 7 = 17 - 9 = 8 \text{ tens}$$

**Subtract the hundreds:**

$$6 - 3 = 3 \text{ hundreds}$$

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)



# SUBTRACTION

A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

## Subtract the following.

1)

$$\begin{array}{r} 217 \\ - 108 \\ \hline 109 \end{array}$$

10+7

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

2)

$$\begin{array}{r} 1 \quad 10+1 \quad 10+4 \\ \cancel{124} \\ - 135 \\ \hline 089 \end{array}$$

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

3)

$$\begin{array}{r} 3 \quad 10 \quad 4 \quad 4 \quad 10+1 \\ \cancel{4} \quad \cancel{5} \quad \cancel{1} \\ - 1 \quad 5 \quad 2 \\ \hline 2 \quad 9 \quad 9 \end{array}$$

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

4)

$$\begin{array}{r} 845 \\ - 429 \\ \hline 416 \end{array}$$

The diagram illustrates the regrouping process for the subtraction  $845 - 429$ . The minuend 845 is shown in a green bar, and the subtrahend 429 is shown in a cyan bar. A yellow box with a minus sign is to the left. The result 416 is shown below a horizontal line. An arrow points from the 4 in the tens place of the minuend to the 5 in the ones place, with "10+5" written above it. A "3" is written above the 4 in the tens place, and a diagonal line is drawn through it.

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

5)

$$\begin{array}{r} 2 \phantom{0} \phantom{0} \phantom{0} \\ 3 \phantom{0} \phantom{0} \phantom{0} \\ 1 \phantom{0} \phantom{0} \phantom{0} \\ \hline 1 \phantom{0} \phantom{0} \phantom{0} \end{array}$$

10 + 7      10 + 8



# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

6)

$$\begin{array}{r} 1 \quad 10+3 \quad 10+8 \\ \begin{array}{|c|c|c|} \hline 2 & 3 & 8 \\ \hline \end{array} \\ - \begin{array}{|c|c|c|} \hline 1 & 4 & 9 \\ \hline \end{array} \\ \hline 0 \quad 9 \quad 9 \end{array}$$

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

7)

$$\begin{array}{r} \phantom{1}2 \\ 3 \\ \hline 1 \phantom{0} 8 \phantom{0} 6 \\ \hline 1 \phantom{0} 8 \phantom{0} 6 \end{array}$$

The diagram illustrates the subtraction of 32 from 186 using a place value chart. The top row, representing the minuend 32, is highlighted in green and has a diagonal slash through it. The bottom row, representing the subtrahend 186, is highlighted in cyan. A yellow box with a minus sign is positioned to the left of the chart. Above the chart, the process of regrouping is shown: a '2' is placed above the tens column, and '10+6' is placed above the hundreds column. An arrow points from the '2' to the '10+6', and another arrow points from the '10+6' to the '10+2' above the ones column. The final result, 186, is shown below the horizontal line.

# SUBTRACTION

## A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)

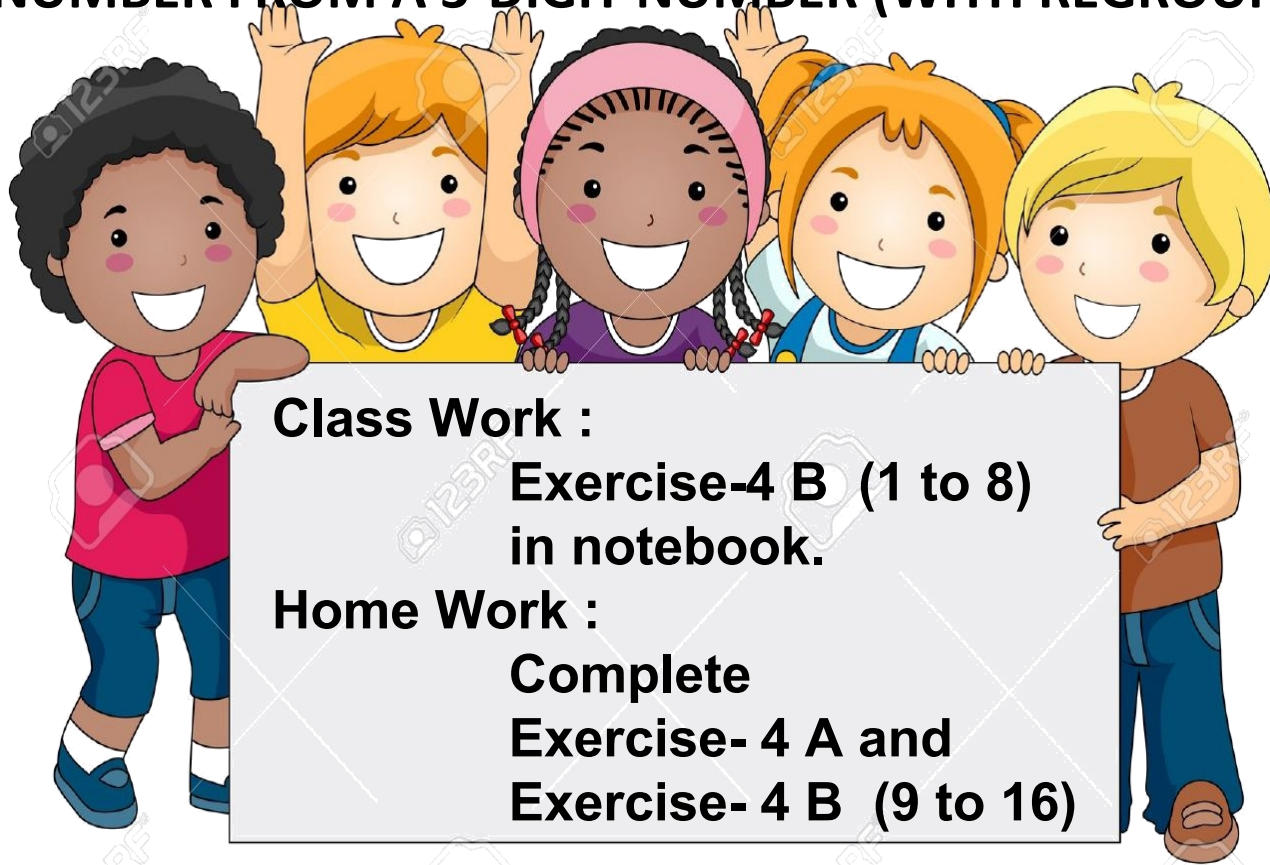
8)

$$\begin{array}{r} 819 \\ - 643 \\ \hline 248 \end{array}$$

The diagram illustrates the subtraction process with regrouping. The minuend 819 is shown in a green box, and the subtrahend 643 is shown in a cyan box. A yellow box with a minus sign is to the left. The result 248 is shown below a horizontal line. An arrow points from the 9 to the 1, with "10+1" written above it, indicating a regrouping step.

# **SUBTRACTION**

## **A 3-DIGIT NUMBER FROM A 3-DIGIT NUMBER (WITH REGROUPING)**



**Class Work :**

**Exercise-4 B (1 to 8)  
in notebook.**

**Home Work :**

**Complete  
Exercise- 4 A and  
Exercise- 4 B (9 to 16)**

## **LEARNING OUTCOME:**

**Children are confident of developing conceptual understanding, identify subtraction problems, to use two different strategies to subtract three-digit numbers and perform subtraction of a 3-digit number from a 3-digit number without regrouping .**



**THANKING YOU**  
**ODM EDUCATIONAL GROUP**