**SESSION : 9**
**CLASS : 3**
**SUBJECT :  MATHEMATICS**
**CHAPTER NUMBER: 4**
**CHAPTER NAME : SUBTRACTION**
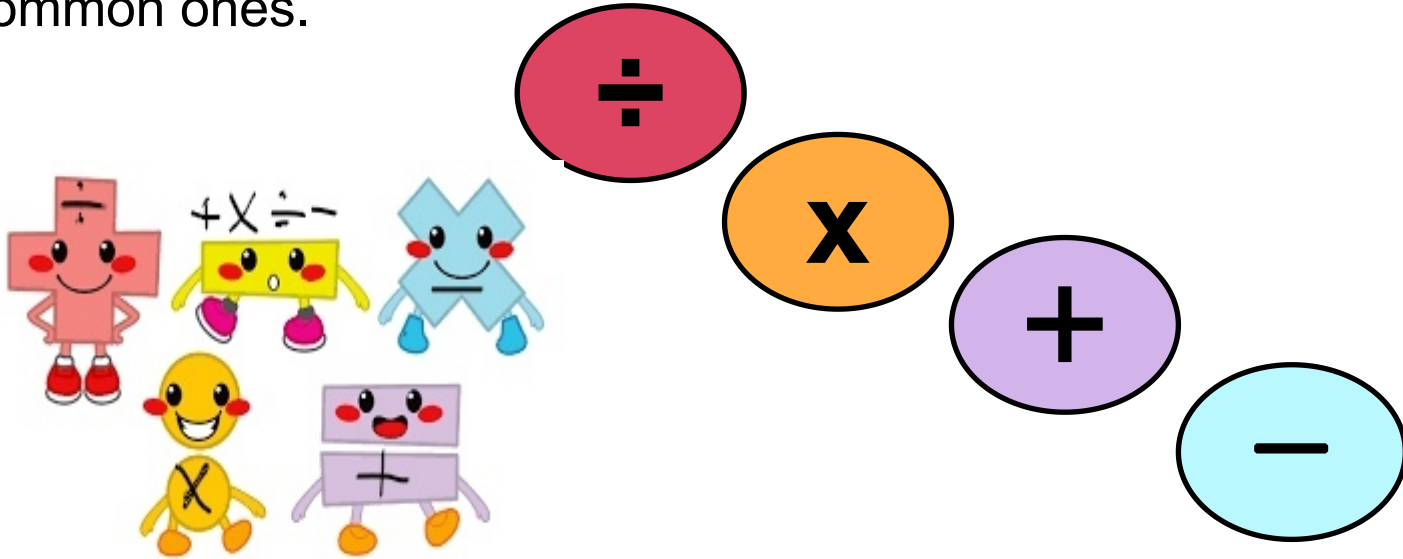**SUBTOPIC : SUMS INVOLVING BOTH ADDITION AND SUBTRACTION**

**LEARNING OBJECTIVE :**

Children will learn :

*Learn the order to solve mathematical problems.

* Acquire the knowledge of 'BODMAS' Rule.

* Learn to apply addition and subtraction according to 'BODMAS' Rule.

* Learn to organize the operations.

* Learn to use the order of mathematical operations to evaluate the sum.

# SUBTRACTION
## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

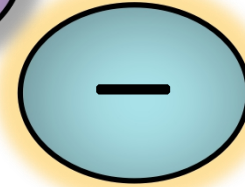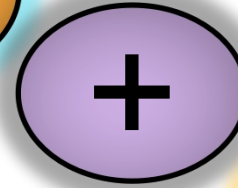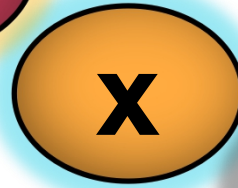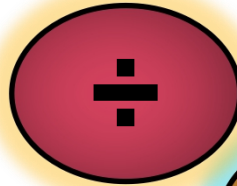There are many operations in Maths.  These are some of the common ones.

# SUBTRACTION
## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

BODMAS  is a rule to deal with different operations in a question in sequence.

÷

X

+

−

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## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

We have already learnt the operation of Addition and Subtraction.
So when we see both operation in one what should we
do?
Let us see......
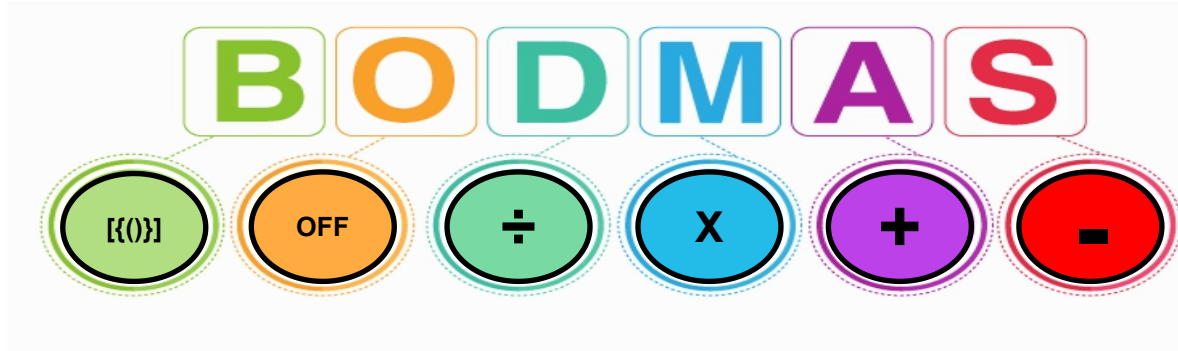
# SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

**BODMAS stands for Bracket, Off, Division, Multiplication, Addition, and Subtraction. ... According to BODMAS rule, the 'brackets' have to be solved first followed by 'off ', then Division, Multiplication, Addition and at the end Subtraction.**
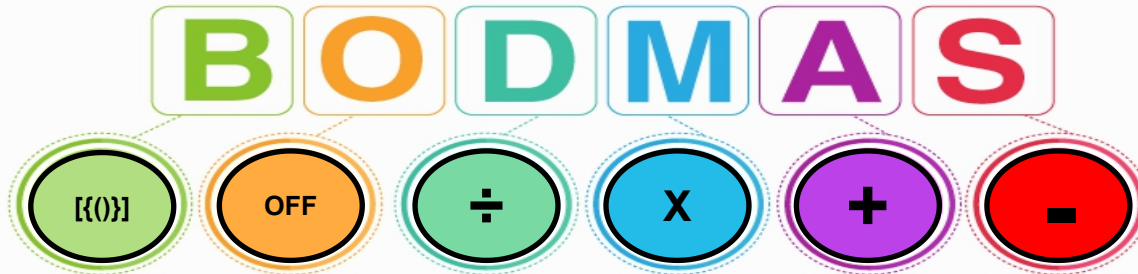
**SUBTRACTION**

## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

| | | |
|---|---|---|
| First work out — | brackets | **(B)** |
| then perform — | 'of' | **(O)** |
| then — | ÷ (division) | **(D)** |
| after that — | × (multiplication) | **(M)** |
| next — | + (addition) | **(A)** |
| at the end — | − (subtraction) | **(S)** |

**So we first work out for 'brackets', then perform 'of ', then 'division', after that ' multiplication', next ' addition' and at the end ' subtraction' .**

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# SUBTRACTION

## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

**BOOK PAGE :72**
**Exercise - 4 (I) - 1-a to d, 2 and 3**

# SUBTRACTION

## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

**1) Solve the following:**

**a) 3 7 0 4 - 7 2 6 3 + 5 4 0 2 = 1 8 4 3**

$$
\begin{array}{r}
\overset{1}{\phantom{0}} \\
3\ \ 7\ \ 0\ \ 4 \\
+\ \ 5\ \ 4\ \ 0\ \ 2 \\
\hline
\overset{8}{9}\ \ \overset{10}{\cancel{1}}\ \ \overset{10}{\cancel{0}}\ \ 6 \\
-\ \ 7\ \ 2\ \ 6\ \ 3 \\
\hline
1\ \ 8\ \ 4\ \ 3
\end{array}
$$

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# SUBTRACTION
## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

b) 1 3 2 4 - 3 7 9 6 + 4 4 3 7 - 1 2 5 1 = 7 1 4

$$
\begin{array}{r}
\phantom{+}\;1\phantom{\;3\;2\;4} \\
1\;3\;2\;4 \\
+\;4\;4\;3\;7 \\
\hline
5\;7\;6\;1 \\
-\;3\;7\;9\;6 \\
\hline
1\;9\;6\;5 \\
-\;1\;2\;5\;1 \\
\hline
7\;1\;4
\end{array}
$$

# SUBTRACTION

## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

c) 4 3 7 3 - 2 4 3 1 - 4 3 2 7 + 3 1 2 4 = 7 3 9

$$
\begin{array}{r}
4\ 3\ 7\ 3 \\
+\ 3\ 1\ 2\ 4 \\
\hline
7\ 4\ 9\ 7 \\
-\ 2\ 4\ 3\ 1 \\
\hline
5\ 0\ 6\ 6 \\
-\ 4\ 3\ 2\ 7 \\
\hline
7\ 3\ 9
\end{array}
$$

# SUBTRACTION
## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

| d) 5 1 4 2 + 1 2 1 0 - 3 5 9 7 | = 2 7 5 5 |
|---|---|

$$
\begin{array}{r}
5\ \ 1\ \ 4\ \ 2 \\
+\ \ 1\ \ 2\ \ 1\ \ 0 \\
\hline
6\ \ 3\ \ 5\ \ 2 \\
-\ \ 3\ \ 5\ \ 9\ \ 7 \\
\hline
2\ \ 7\ \ 5\ \ 5
\end{array}
$$

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# SUBTRACTION

## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

2) Subtract 2694 from the sum of 1515 and 2123.

1 5 1 5 + 2 1 2 3 - 2 6 9 4 = 9 4 4

$$
\begin{array}{cccc}
 & 1 & 5 & 1 & 5 \\
+ & 2 & 1 & 2 & 3 \\
\hline
 & \cancel{3}^2 & \cancel{6}^{15} & \cancel{3}^{13} & 8 \\
- & 2 & 6 & 9 & 4 \\
\hline
 & 0 & 9 & 4 & 4 \\
\end{array}
$$

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# SUBTRACTION
## SUMS INVOLVING BOTH ADDITION AND SUBTRACTION

3) Subtract the sum of 2315 and 1208 from the sum of 3215 and 1006.

(3 2 1 5 + 1 0 0 6) - (2 3 1 5 + 1 2 0 8) = 6 9 8

$$
\begin{array}{r}
\phantom{+}\ 1\phantom{5} \\
3\ 2\ 1\ 5 \\
+\ 1\ 0\ 0\ 6 \\
\hline
4\ 2\ 2\ 1
\end{array}
\qquad
\begin{array}{r}
\phantom{+}\ \ \ 1\phantom{5} \\
2\ 3\ 1\ 5 \\
+\ 1\ 2\ 0\ 8 \\
\hline
3\ 5\ 2\ 3
\end{array}
$$

$$
\begin{array}{r}
{}^{3}\ \ {}^{11}\ \ {}^{11}\ \ {}^{11} \\
\cancel{4}\ \cancel{2}\ \cancel{2}\ \cancel{1} \\
-\ 3\ \ 5\ \ 2\ \ 3 \\
\hline
0\ \ 6\ \ 9\ \ 8
\end{array}
$$

MATHS

**SUBTRACTION**

**SUMS INVOLVING BOTH ADDITION AND SUBTRACTION**

# Do / Practice:

C/W : Exercise - 4 (I) - 1-a to d, 2 and 3

H/W : Complete Exercise - 4 (I)1- e to h

**LEARNING OUTCOME:**

Students will be able to implement the order to solve mathematical problems, acquire the knowledge of 'BODMAS' Rule and apply it also be able to organize the operations. Will be able to use the order of mathematical operations to evaluate the sum.

# THANKING YOU
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