

EXERCISE

2.3

1) Add the following using expanded form :-

A:- $915 + 1787$

Sol:- Th H T O

$$900 + 10 + 5 \rightarrow$$

$$700 + 80 + 7 \rightarrow + \underline{1000} +$$

$$00 + 90 + 12 \quad 1000 + 16$$

$$+ 600 + \underline{90} + \underline{10} + 2 \quad \underline{1000} + \underline{1000}$$

$$\underline{100} + 2 \quad 2000 + \underline{600} +$$

$$2 \Rightarrow \underline{2702} \quad 2000 + 700 +$$

B:- 8 0 5 7 + 1 8 7 3

Sol:- Th H T O

**8 0 5 7 -> 8 0 0 0 + 0
0 0 + 5 0 + 7**

**1 8 7 3 -> + 1 0 0 0 + 8
0 0 + 7 0 + 3**

9 0 0 0 + 8 0

0 + 1 2 0 + 1 0

9 0 0 0 + 8 0

0 + 1 0 0 + 2 0 + 1 0

9 0 0 0 + 9 0 0

+ 3 0 => 9 9 3 0

C:- 1 3 5 7 + 2 7 8 5

Sol:- TH H T O

**1 3 5 7 -> 1 0 0 0 +
3 0 0 + 5 0 + 7**

**2 7 8 5 -> + 2 0 0 0 +
7 0 0 + 8 0 + 5**

3 0 0 0 + 1 0

0 0 + 1 3 0 + 1 2

$$\begin{array}{r}
 4000 + 1 \\
 00 + \underline{30 + 10} + 2 \\
 0 + 2 \quad \Rightarrow \quad \underline{4142}
 \end{array}$$

D:- 4 3 7 6 + 2 8 1 5

Sol:- TH H T O

$$\begin{array}{r}
 4 \quad 3 \quad 7 \quad 6 \quad \rightarrow \quad 4000 + \\
 300 + 70 + 6
 \end{array}$$

$$\begin{array}{r}
 2 \quad 8 \quad 1 \quad 5 \quad \rightarrow \quad + \underline{2000} + \\
 \underline{800 + 10 + 5}
 \end{array}$$

$$\begin{array}{r}
 6000 + 11 \\
 00 + 80 + 11
 \end{array}$$

$$\begin{array}{r}
 \underline{6000 + 1000} \\
 + 100 + \underline{80 + 10} + 1
 \end{array}$$

$$\begin{array}{r}
 7000 + 100 + 9 \\
 0 + 1 \quad \Rightarrow \quad \underline{7191}
 \end{array}$$

2) Solve the following problems. :-

A:- Rahul brought a water cooler for Rs. 3 4 7 5 and a television for Rs. 4 1 9 7 . How much he spend in all ?

**Sol:- Rahul brought water cooler for
= Rs 3 4 7 5**

**Rahul brought television for
= + Rs 4 1 9 7**

**He spend in all = Rs.
7 6 7 2**

**B:- There are 3 7 2 1 teek trees and 6 2 5 3 rosewood trees in a forest .
How many trees are there in all ?**

**Sol:- Number of teek trees. =
3 7 2 1**

**Number of rosewood trees =
+ 6 2 5 3**

$$\begin{array}{r} \text{Total numbers of trees} \\ \underline{9 \quad 9 \quad 7 \quad 4} \end{array} = \underline{\quad}$$

C:- There are 6 3 5 3 people in village A and 2 3 4 6 in village B . What is the total population of village A and B ? Find an estimate population and compare it with the actual population .

$$\begin{array}{r} \text{Sol:- people in village A} \\ 6 \quad 3 \quad 5 \quad 3 \end{array} =$$

$$\begin{array}{r} \text{People in village B} \\ \underline{2 \quad 3 \quad 4 \quad 6} \end{array} = +$$

$$\begin{array}{r} \text{Total no. of people in village} \\ \underline{8 \quad 6 \quad 9 \quad 9} \end{array} =$$

$$\text{Actual population} = \underline{8 \quad 6 \quad 9 \quad 9}$$

Here , 9 > 5 and 9 0
 <----- 9 9 -> 1 0 0

. ° . , Estimated population of
 village A and B is

8 7 0 0

So , 8 6 9 9 < 8 7
 0 0

3) Find the estimated
 sum and compare it with
 the actual sum .

A:- 2 4 5 + 2 6 2

5 =

5

Sol:- 2 4 5 -----
 > 2 5 0

4 0 <— 45 —>

5 0

2 <

5

2 6 2 -----
 > 2 6 0

6 0 <— 6 2 —>

7 0

Actual sum

Estimated sum

	2	4	5
2	5	0	
	+ 2	6	2
+ 2	6	0	

	5	0	7
5	1	0	

So , 5 0 7 < 5

1 0

B:- 5 3 6 + 6 7 5

6 > 5

Sol:- 5 3 6 _____
 > 5 4 0

3 0 <- 3 6 -> 4

0

5 =

5

6 7 5
 _____ > 6 8 0
 7 0 <- 7 5 ->

8 0

Actual sum

Estimated sum

5 3 6

5 4 0

+ 6 7 5

+ 6 8 0

$$\begin{array}{r} \underline{12 \quad 1 \quad 1} \\ 12 \quad 2 \quad 0 \end{array}$$

So, $1211 < 1220$

C:- $1357 + 7586$

7 >

5

Sol:- 1357 -----
 > 1360
 $50 < -57 -$

> 60

$$\begin{array}{r} 7 \quad 5 \quad 8 \quad 6 \quad \underline{6} \quad > \quad 5 \\ 7 \quad 5 \quad 9 \quad 0 \quad \text{-----} > \\ 8 \quad 0 < -57 - > \end{array}$$

9 0

Actual sum
Estimated sum

$$\begin{array}{r}
 1360 \\
 + 7586 \\
 \hline
 8950
 \end{array}$$

$$\begin{array}{r}
 8950 \\
 \hline
 8950
 \end{array}$$

So, $8943 <$

8950