Class – VI   **Sub :- Math**

Chapter – 1

Knowing our Numbers

Exercise 1.1

(Note:- Solve the problems carefully as in all questions first two or three problems are done for you.)

1. Place commas correctly and write the numerals:

(a). Seventy three lakh seventy five thousand three hundred seven.

 Ans - 73,75,307

(b). Nine crore five lakh forty one.

 Ans - 9,05,00,041

(**c). Seven crore fifty two lakh twenty one thousand three hundred two.**

(d). Fifty eight million four hundred twenty three thousand two hundred two.

(e). Twenty three lakh thirty thousand ten

2. **Insert commas suitably and write the names according to Indian System of Numeration:**

(a). 87595762

 Ans - Eight crore seventy five lakh ninety five thousand seven hundred sixty two

(b). 8546283

Ans - Eighty five lakh forty six thousand two hundred eighty three

(c). 99900046

(d). 98432701

3. Insert commas suitably and write the names according to International System of Numeration:

(a). 78921092

Ans - Seventy eight million nine hundred twenty one thousand ninety two

(b). 7452283

Ans - Seven million four hundred fifty two thousand two hundred eighty three

(c). 99985102

(d). 4804983

Exercise 1.2

1. **A book exhibition was held for four days in a school. The number of tickets sold at the counter on the first, second, third, and final day was respectively 1094, 1812, 2050, and 2751. Find the total number of tickets sold on all the four days.**

Sol:- Tickets sold on 1st day = 1094

Tickets sold on 2nd day = 1812

Tickets sold on 3rd day = 2050

Tickets sold on 4th day = 2751

Total tickets sold = 1094 + 1812 + 2050 + 2751

$$\begin{array}{r} 1094 \\ 1812 \\ 2050 \\ +2751 \\ \hline 7707 \\ \hline \end{array}$$

∴ Total tickets sold = 7,707

2. **Shekhar is a famous cricket player. He has so far scored 6980 runs in test matches. He wishes to complete 10, 000 runs. How many more runs does he need?**

Sol :- Runs scored so far = 6980

Runs Shekhar wants to score = 10,000

More runs required = 10,000 − 6980

$$\begin{array}{r} 10000 \\ -\ 6980 \\ \hline 3020 \\ \hline \end{array}$$

∴ Shekhar requires 3,020 more runs.

3. **In an election, the successful candidate registered 5, 77, 500 votes and his nearest rival secured 3, 48, 700 votes. By what margin did the successful candidate win the election?**

Sol :- Votes secured by successful candidate = 5,77,500

Votes secured by rival = 3,48,700

Margin = 5,77,500 − 3,48,700

$$
\begin{array}{r}
577500 \\
-348700 \\
\hline
228800 \\
\hline
\end{array}
$$

∴Margin = 2,28,800

4. **Kirti bookstore sold books worth Rs 2,85,891 in the first week of June and books worth Rs 4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?**

5. **Find the difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3 each only once.**

6. **A machine, on an average, manufactures 2,825 screws a day. How many screws did it produce in the month of January 2006?**

7. **A vessel has 4 litres and 500 ml of curd. In how many glasses, each of 25 ml capacity, can it be filled?**

Exercise 1.3

1. **Estimate each of the following using general rule:**

(a) 730 + 998

Sol:- 730 round off to 700

998 round off to 1000

Estimated sum = 1700

(b)   28, 292 − 21, 496

Sol :- 28292 round off to 28000

21496 round off to 21000

Estimated difference = 21000

(C) 796 – 314   **(d) 12, 904 + 2, 888**

2. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens):

(a) 439 + 334 + 4, 317

Sol :- Rounding off to nearest hundreds, 439, 334, and 4317 may be rounded off to 400, 300, and 4300 respectively.

```
   400
   300
+ 4300
 _____
  5000
 _____
```

Rounding off to nearest tens, 439, 334, and 4317 may be rounded off to 440, 330, and 4320 respectively.

```
   440
   330
+ 4320
 _____
  5090
 _____
```

(b) 1,08,734 − 47,599

Rounding off to hundreds, 1,08,734 and 47,599 may be rounded off to 1,08,700 and 47,600 respectively.

```
  108700
- 47600
  _____
   61100
```

Rounding off to tens, 1,08,734 and 47,599 may be rounded off to 1,08,730 and 47,600 respectively.

```
  108730
- 47600
  _____
   61130
```

(C) 8325 – 491   **(d) 4, 89, 348 – 48, 365**

3. Estimate the following products using general rule:

(a) 578 x 161

Sol :- 578 round off to 600

     161 round off to 200

     The estimated product = 600 x 200 = 1, 20, 000

(b) 5281 x 3491

Sol:- 5281 round off to 5000

     3481 round off to 3500

     The estimated product = 5000 x 3500 = 1, 75, 00, 000

(c) 1291 x 591   **(d) 9250 x 29**