Class VI Mathematics
Chapter-1 Knowing Your Numbers

Exercise 1.1

1. Fill in the blanks:

(a) 1 lakh = 10 ten thousand
(b) 1 million = 10 hundred thousand
(c) 1 crore = 10 ten lakh
(d) 1 crore = 10 million
(e) 1 million = 10 lakh

2. 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.

Ans: 7,52,21,302

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

Ans: 58,423,202

(e) Twenty-three lakh thirty thousand ten.

Ans: 23,30,010

3. Insert commas suitable and write the names according to Indian system of numeration:

(a) 87595762
Ans: 8,75,95,762
Eight crore seventy-five lakh ninety-five thousand seven hundred and sixty two

(b) 8546283
Ans: 85,46,283
Eighty-five lakh forty-six thousand two hundred and eighty-three

(c) 99900046
Ans: 9,99,00,046
Nine crore ninety-nine lakh forty-six

(d) 98432701
Ans: 9,84,32,701
Nine crore eighty-four lakh thirty-two thousand seven hundred and one

4. Insert commas suitable and write the names according to international system of numeration:

(a) 78921092
Ans: 78,921,092
Seventy-eight million nine hundred twenty-one thousand ninety-two

(b) 7452283
Ans: 7,452,283
Seven million four hundred fifty two thousand two hundred and eighty three

(c) 99985102
Ans: 99,985,102
Ninety nine million nine hundred eighty five thousand one hundred and two

(d) 48049831
Ans: 48,049,831
Forty eight million forty nine thousand eight hundred and thirty one

Class VI Mathematics
Chapter-1 Knowing Your Numbers

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.

Ans:

Number of tickets sold on first day	=	1,094
Number of tickets sold on second day	=	1,812
Number of tickets sold on third day	=	2,050
Number of tickets sold on fourth day	=	+2,751
Total tickets sold	=	7,707

Therefore, 7,707 tickets were sold on all the four days.

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?

Ans:

Runs to achieve	=	10,000
Runs scored	=	- 6980
Runs required	=	3020

Therefore, he needs 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?

Ans:

Number of votes secured by successful candidate	=	5,77,500
Number of votes secured by his nearest rival	=	- 3,48,700
Margin between them	=	2,28,800

Therefore, the successful candidate won by a margin of 2,28,800 votes.

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

Ans:

Worth of Books sold in first week = ₹ 2,85,891

Worth of Books sold in second week = +₹ 4,00,768

Total worth of books sold = ₹ 6,86,659

Since, 4,00,768,> 2,85,891

Therefore sale of second week is greater than that of first week.

Worth of Books sold in second week = ₹ 4,00,768

Worth of Books sold in first week = - ₹ 2,85,891

Worth of books sold more in second week = ₹ 1,14,877

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.

Ans:

Greatest five-digit number using digits 6,2,7,4,3 = 76432

Smallest five-digit number using digits 6,2,7,4,3 = - 23467

Difference = 52965

Therefore, the difference is 52965

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

Ans:

Number of screws manufactured in one day = 2,825

Number of days in the month of January (31 days) = 2,825×31

= 87,575

Therefore the machine produced 87,575 screws in the month of January.

7. A merchant had ₹ 78,592 with her. She placed an order for purchasing 40 radio sets at ₹ 1,200 each. How much money will remain with her after the purchase?

Ans:

Cost of one radio = ₹ 1200

Cost of 40 radios = 1200 ×40 = ₹ 48,000

Now,

Total money with merchant = ₹ 78,592

Money spent by her = - ₹ 48,000

Money left with her = ₹ 30,592

Therefore, ₹ 30,592 will remain with her after the purchase.

8. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?

Ans:

Wrong answer = 7236 ×65

$$\begin{array}{r} 7236 \\ \times 65 \\ \hline 36180 \\ 43416\times \\ \hline 470340 \end{array}$$

Correct answer = 7236 ×56

$$\begin{array}{r} 7236 \\ \times 56 \\ \hline 43416 \\ 36180\times \\ \hline 405216 \end{array}$$

Difference in answers = 470340 – 405216

= 65,124

9. To stitch a shirt 2 m 15 cm cloth is needed. Out of 40 m cloth, how many shirts can be stitched and how much cloth will remain?

Ans:

Cloth required to stitch one shirt = 2 m 15 cm

= 2 ×100 cm + 15 cm

= 215 cm

Length of cloth = 40 m = 40 ×100 cm = 4000 cm

Number of shirts can be stitched = 4000 ÷215

$$\begin{array}{r} 18 \\ 215\overline{)\ 4000} \\ -215 \\ \hline 1850 \\ -1720 \\ \hline 130 \end{array}$$

Therefore, 18 shirts can be stitched and 130 cm (1m 30 cm) cloth will remain.

10. Medicine is packed in boxes, each weighing 4 kg 500 g. How many such boxes can be loaded in a can which cannot carry beyond 800 kg?

Ans:

The weight of one box = 4 kg 500 g = 4×1000 g + 500 g = 4500 g
Maximum load can be loaded in van = 800 kg = 800×1000 g = 800000 g
Number of boxes = 800000 ÷ 4500

```
      177
4500 )800000
      -4500
      35000
     -31500
      35000
     -31500
       3500
```

Therefore, 177 boxes can be loaded.

11. The distance between the school and the house of a student's house is 1 km 875 m. Every day she walks both ways. Find the total distance covered by her in six days.

Ans:

Distance between school and home	= 1.875 km
Distance between home and school	= + 1.875 km
Total distance covered in one day	= 3.750 km
Distance covered in six days	= 3.750 ×6 = 22.500 km

Therefore, 22 km 500 m distance covered in six days.

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

Ans:

Capacity of curd in a vessel = 4 liters 500 ml = 4 ×1000 ml + 500 ml = 4500 ml
Capacity of one glass = 25 ml
Number of glasses can be filled = 4500 ÷25

```
     180
25)4500
    - 25
     200
    -200
       0
```

Therefore, 180 glasses can be filled by curd.

Class VI Mathematics
Chapter-1 Knowing Your Numbers

Exercise 1.3

1. Estimate each of the following using general rule:

(a) 730 + 998

Ans:

730 round off to 700

998 round off to 1000

Estimated sum = 1700

(b) 796 – 314

Ans:

796 round off to 800

314 round off to 300

Estimated difference = 500

(c) 12,904 + 2,888

Ans:

12904 round off to 13000

2888 round off to 3000

Estimated sum = 16000

(d) 28,292 – 21,496

Ans:

28292 round off to 28000

21496 round off to 21000

Estimated difference = 7000

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 + 4317

Ans: Nearest hundreds

439 round off to 400

334 round off to 300

4317 round off to 4300

Estimated sum = 5000

Nearest tens

439 round off to 440

334 round off to 330

4317 round off to 4320

Estimated sum = 5090

(b) 1,08,737 – 47,599

Ans: Nearest hundreds

108734 round off to 108700

47599 round off to 47600

Nearest tens

108734 round off to 108730

47599 round off to 47600

Estimated difference = 61130

Estimated difference = 61100

(c) 8325 – 491

Ans: Nearest hundreds
8325 round off to 8300
491 round off to 500
Estimated difference = 7800

Nearest tens
8325 round off to 8330
491 round off to 490
Estimated difference = 7840

(d) 4,89,348 – 48,365

Ans: Nearest hundreds
489348 round off to 489300
48365 round off to 48400
Estimated difference = 440900

Nearest tens
489348 round off to 489350
48365 round off to 48370
Estimated difference = 440980

3. **Estimate the following products using general rule:**

(a) 578 x 161

Ans:
578 round off to 600
161 round off to 200
Estimated product = 1,20,000

(b) 5281 x 3491

Ans:
5281 round off to 5000
3491 round off to 3500
Estimated product = 1,75,00,000

(c) 1291 x 592

Ans:
1291 round off to 1300
592 round off to 600
Estimated product = 7,80,000

(d) 9250 x 29

Ans:
9250 round off to 9,000
229 round off to 200
Estimated product = 18,00,000