CLASS 6th

MATHS

CHAPTER- 1st

KNOWING OUR NUMBERS

EXERCISE-1.1

NCERT SOLUTION

Question 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.

Question 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.

5, 84, 23, 202

(e) Twenty-three lakh thirty thousand ten.
Ans.

23, 30, 010.

Question 3. Insert commas suitably and write the names according to Indian System of Numeration:
(a) 8, 75, 95, 762

Ans.

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

(b) 85, 46, 283
Ans.

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

(c) 9, 99, 00, 046
Ans.

Nine crore ninety-nine lakh forty-six.

(d) 9, 84, 32, 701
Ans.

Nine crore eighty-four lakh thirty-two thousand seven hundred one.

Question 4. Insert commas suitably and write the names according to International System of Numeration:

(a) 78,921,092
Ans.

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

(b) 7,452,283
Ans.

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

(c) 99,985,102
Ans.

Ninety-nine million nine hundred eighty-five thousand one hundred two.

(d) 48,049,831
Ans.

Forty-eight million forty-nine thousand eight hundred thirty-one.

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EXERCISE-1.2

NCERT SOLUTION

Question 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 the first day = 1094
Number of tickets sold on the second day = 1812
Number of tickets sold on the third day = 2050
Number of tickets sold on the final day = 2751
∴ Number of tickets sold on all the four days =

$$1094 + 1812 + 2050 + 2751 = 7{,}707 \text{ tickets.}$$

Question 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:

Shekhar has so far scored = 6980 runs

He wishes to complete = 10,000 runs.
Total runs needed by him = 10,000 – 6980 = 3020 runs

Question 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 rival = 3, 48,700
Margin of votes needed to win the election = 5, 77,500 – 3, 48,700 = 2, 28,800 votes.

Question 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?

Ans:

Books sold in first week of June = Rs. 2, 85,891
Books sold in second week of the month = Rs. 4, 00,768
Therefore, total sale of books in the two weeks together
= Rs. 2, 85,891 + Rs. 4, 00,768 = Rs. 6, 86,659

In the second week of the month, the sale of books was greater.
Difference of the sale of books = Rs. 4, 00,768 – Rs. 2, 85,891 =

Rs. 1, 14,877

Hence, in second week of June, the sale of books was more by =

Rs. 1, 14,877.

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

Ans:

Given digits are 6, 2, 7, 4, and 3

Greatest number = 76432

Least number = 23467

Therefore, Difference = 76432 – 23467 = 52,965

Question 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 screws.

No. of days in the month of January = 31 days

Number of screws manufactured in month of January =

31 x 2825 = 87,575 screws.

Question 7. A merchant had Rs. 78,592 with her. She placed an order for purchasing 40 radio sets at Rs. 1200 each. How much money will remain with her after the purchase?

Ans:

Amount of money with the merchant = Rs. 78,592

Number of radio sets = 40

Cost of one radio set = Rs. 1200

Therefore, cost of 40 radio sets = Rs. 1200 x 40 = Rs. 48, 000
Remaining money with the merchant = Rs.78, 592 – Rs. 48000 =

Rs. 30,592

Hence, amount of Rs. 30,592 will remain with her after purchasing the radio sets.

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

Ans:

Student had multiplied 7236 by 65 instead of multiplying it by 56.

Difference between the two multiplications = (65 – 56) x 7236 = 9 x 7236 = 65124

Hence, His answer greater than the correct answer by 65,124.

Question 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:

Total length of the cloth = 40 m Or in cm = 40 x 100 cm = 4000 cm.

Cloth needed to stitch a shirt = 2 m 15 cm = 2 x 100 + 15 cm = 215 cm

Therefore, number of shirts stitched = 4000 ÷ 215 = 18m130cm

So, the number of shirts stitched = 18 and the remaining cloth **=** 130 cm = 1 m 30 cm

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

Ans:

Weight of one box = 4 kg 500 g (in g) = 4 x 1000 + 500 = 4500 g

And 800 kg (in g) = 800 x 1000 = 800000 g

Boxes loaded in the van = 800000 ÷ 4500 = 177 boxes

Therefore, 177 boxes can only be loaded in the van.

Question 11.

The distance between the school and the house of a student 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 house = 1 km 875 m (in to m) = (1000 + 875) m = 1875 m.

Distance travelled by the student in both ways =

$$1\,8\,7\,5$$
$$\times\ 2$$
$$=\ \overline{3750\ \text{m}}$$

Distance travelled in 6 days =

$$3750\ \text{m}$$
$$\times 6$$
$$=\ \overline{22500\ \text{m}}$$

(In km and m) = 22 km 500 m

Hence, total distance covered in six days = 22 km 500 m.

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

Ans:

Quantity of curd in a vessel = 4 1 500 ml (in ml) =

(4 x 1000 + 500) ml = 4500 ml
Capacity of 1 glass = 25 ml

Therefore, number of glasses = 4500 ÷ 25 = 180 glasses.