



## MATHS

### BOOKS - MTG IIT JEE FOUNDATION

#### KNOWING OUR NUMBERS

#### Solved Examples

1. Find the greatest and smallest number from the given numbers.

56731, 57361, 51637, 51736, 53176



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2. Write the following numbers in the expanded form.

60, 01, 009



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3. Write the following numbers in the expanded form.

8, 56, 43, 210



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4. Write the given numbers in Roman numerals :

967



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5. Write the given numbers in Roman numerals :

534

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6. Write the given numbers in Roman numerals :

385

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7. The population of Karnataka, Delhi and Gujarat are respectively 54, 37, 211, 7, 64, 46, 300 and 12, 43, 998. What is combined population of the three states?

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**8.** Write the following in words according to Indian System of

Numeration :

5863496



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**9.** Write the following in words according to Indian System of

Numeration :

7425426



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**10.** Write the following in words according to Indian System

of Numeration :

25824320



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**11.** Write the following in words according to Indian System of Numeration :

16289519



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**12.** Form the largest 4 - digit number using any

4, 9, 8



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**13.** Form the largest 4 - digit number using any

7, 3, 0



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**14.** Arrange the following in descending order :

12353, 189625, 125963, 82081



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**15.** Arrange the following in descending order :

962819237, 659640, 11398



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**16.** Write the following in words according to International System of Numeration :

123527891



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**17.** Write the following in words according to International System of Numeration :

183523512



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**18.** Write the following in words according to International System of Numeration :

9058009



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**19.** Write the following in words according to International System of Numeration :

2348828

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**20.** Make the greatest and the smallest 5 - digit numbers using any five different digits with the condition given below :  
Digit 8 is always at hundreds place.

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**21.** Make the greatest and the smallest 5 - digit numbers using any five different digits with the condition given below :  
Digit 1 is always at thousands place.





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**22.** Each book has 20 pages. Every day 12,800 books are printed. How many total pages are printed every day?



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**23.** Write the numerals and place the commas.

Seven crore thirty two lakh fifty four thousand two hundred sixty three



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**24.** Write the numerals and place the commas.

One hundred eighty five million three hundred twenty three

thousand two hundred fifty one



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**25.** Write the numerals and place the commas.

Sixty two lakh nine thousand six hundred nineteen



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**26.** Write the numerals and place the commas.

Two million three hundred forty six thousand eight hundred  
twenty five



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**27.** Write the numerals and place the commas.

One hundred million two hundred thousand three hundred



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**28.** Express the following as Hindu - Arabic numerals.

CLIX



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**29.** Express the following as Hindu - Arabic numerals.

MCDX



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**30.** Express the following as Hindu - Arabic numerals.

MDCXC



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**31.** Arrange the following in ascending order.

39126, 39216, 42216, 38158, 41206



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**32.** Arrange the following in ascending order.

99896, 98996, 99986, 99968, 89996



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**33.** Estimate the following sum to the nearest thousands.

$$3298 + 6281$$



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**34.** Estimate the following sum to the nearest thousands.

$$1215 + 987$$



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**35.** Estimate the following sum to the nearest thousands.

$$3940 + 1850$$



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**36.** Exchange the digits 2 and 7 of the following numbers and compare the new number with the previous one :

172984



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**37.** Exchange the digits 2 and 7 of the following numbers and compare the new number with the previous one :

578582



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**38.** Estimate the following difference to the nearest thousands.

5693 – 3254





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**39.** Estimate the following difference to the nearest thousands.

$$3961 - 1280$$



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**40.** Estimate the following difference to the nearest thousands.

$$7612 - 2893$$



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**41.** Simplify the following :

$$48 + (100 - 4)$$



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**42.** Simplify the following :

$$105 \times (20 - 10)$$



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**43.** Simplify the following :

$$36 + (40 \times 20)$$



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**44.** Estimate the following product to the nearest hundreds.

$$72 \times 439$$



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**45.** Estimate the following product to the nearest hundreds.

$$96 \times 385$$



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**46.** Estimate the following product to the nearest hundreds.

$$342 \times 248$$



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**47.** Simplify the following by expanding brackets.

$$9 \times 108$$



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**48.** Simplify the following by expanding brackets.

$$40 \times 150$$



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**49.** Simplify the following by expanding brackets.

$$38 \times 96$$



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**50.** Compare the following :

98465, 98015



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**51.** Compare the following :

328450, 314650



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**52.** Compare the following :

248660, 24866



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1. Compare the following :

9242 and 367



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2. Compare the following :

5640 and 5784



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3. Compare the following :

8263 and 7893



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4. Arrange the following numbers in ascending order.

5348, 6812, 5281, 356, 9812



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5. Arrange the following numbers in descending order.

4285, 631, 2892, 3800, 4504



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6. Form the smallest and largest 4-digit number in each of the following without repeating the digits.

3, 8, 6, 1



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7. Form the smallest and largest 4-digit number in each of the following without repeating the digits.

4, 0, 2, 3



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8. Form the greatest and smallest 5-digit number in each of the following by repeating any one of the digits. Also, use each digit in the number at least once.

5, 0, 8



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**9.** Form the greatest and smallest 5-digit number in each of the following by repeating any one of the digits. Also, use each digit in the number at least once.

3, 4, 2, 6



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**10.** Write the number names of each of the following:

5,04,326.



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**11.** Write the number names of each of the following:

38, 96, 405



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**12.** Write the number names of each of the following:

1, 23, 40, 008



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**13.** Write the following in expanded form.

9863402



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**14.** Write the following in expanded form.

23400



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15. Write the place value of the underlined digits Write the place value of the underlined digits

38695



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16. Write the place value of the underlined digit

4020803



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17. Write the place value of the underlined digits Write the place value of the underlined digits

326152



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**18.** Write the following numerals in words in both Indian and International System of Numeration.

394261



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**19.** Write the following numerals in words in both Indian and International System of Numeration.

5430030



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**20.** Write the following numerals in words in both Indian and International System of Numeration.

19860005



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**21.** Place the commas in each of the following using both Indian and International System of Numeration.

1232843



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**22.** Place the commas in each of the following using both Indian and International System of Numeration.

920040



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**23.** Place the commas in each of the following using both Indian and International System of Numeration.

86920605



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**24.** Mayank was asked to multiply 1936 by 36. Instead, he multiplied 1963 by 36. What is the difference between the correct answer and incorrect answer?



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**25.** The distance between Riya's and Sameer's house is 105683 m. The distance between Sameer's and Shweta's house is 98654 m. What is the total distance (in km) Riya covers if she first goes to Sameer's house and then Shweta's house?

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**26.** Estimate each of the following by rounding off to nearest thousands.

$$9683 + 4815$$

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**27.** Estimate each of the following by rounding off to nearest thousands.

$$3945 - 1243$$



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**28.** Estimate each of the following by rounding off to nearest thousands.

$$3042 \times 1101$$



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**29.** Estimate each of the following by rounding off to nearest hundreds.

$$482 + 691 + 3413$$



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**30.** Estimate each of the following by rounding off to nearest hundreds.

$$8215 - 389$$



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**31.** Estimate each of the following by rounding off to nearest hundreds.

$$5632 + 8888$$



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**32.** Estimate each of the following by rounding off to nearest hundreds.

$$932 - 800$$



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**33. Simplify :**

$$1586 - (300 + 821)$$

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**34. Simplify :**

$$3281 + (241 - 130)$$

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**35. Simplify :**

$$126 + (15 \times 13)$$

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**36. Simplify :**

$$198 \times (42 + 58)$$



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**37. By using brackets, solve the following :**

$$92 \times 48$$



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**38. By using brackets, solve the following :**

$$32 \times 104$$



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**39.** Write the following in Hindu-Arabic numeral.

XXX



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**40.** Write the following in Hindu-Arabic numeral.

CC



[Watch Video Solution](#)

**41.** Write the following in Hindu-Arabic numeral.

MM



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**42.** Write the following in Roman numeral.

20



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**43.** Write the following in Roman numeral.

300



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**44.** Write the following in Roman numeral.

3



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**45.** Write the following in Hindu-Arabic numeral.

LXX



**Watch Video Solution**

**46.** Write the following in Hindu-Arabic numeral.

XVII



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**47.** Write the following in Hindu-Arabic numeral.

MCII



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**48.** Write the following in Roman numeral.

86



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**49.** Write the following in Roman numeral.

38



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**50.** Write the following in Roman numeral.

6



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**51.** Write the following in Hindu-Arabic numeral.

XL



**Watch Video Solution**

**52.** Write the following in Hindu-Arabic numeral.

XC



**Watch Video Solution**

**53.** Write the following in Hindu-Arabic numeral.

CM



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**54.** Write the following in Roman numeral.

4



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**55.** Write the following in Roman numeral.

9



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**56.** Write the following in Roman numeral.

400



**Watch Video Solution**

**57.** write the following in Hindu-Arabic numeral.

XIV



**Watch Video Solution**

**58.** write the following in Hindu-Arabic numeral.

CXL



**Watch Video Solution**

**59.** write the following in Hindu-Arabic numeral.

MCD



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**60.** Write the following in Roman numeral.

1090



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**61.** Write the following in Roman numeral.

590



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**62.** Write the following in Roman numeral.

19



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## Ncert Section Exercise 1 1

1. Fill in the blanks:

1 lakh = \_\_\_ ten thousand.



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2. Fill in the blanks:

1 million = \_\_\_ hundred thousand.



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3. Fill in the blanks:

1 crore = \_\_\_ ten lakh.



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4. Fill in the blanks:

1 crore = \_\_\_ million.



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5. Fill in the blanks:

1 million = \_\_\_ lakh.



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6. Place commas correctly and write the numerals:

Seventy three lakh seventy five thousand three hundred seven.



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7. Place commas correctly and write the numerals: (a) Seventy three lakh seventy five thousand three hundred seven. (b) Nine crore five lakh forty one. (c) Seven crore fifty two lakh twenty one thousand three hundred two. (d) Fifty eight milli



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8. Place commas correctly and write the numerals:

Seven crore fifty two lakh twenty one thousand three hundred two.



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9. Place commas correctly and write the numerals:

Fifty eight million four hundred twenty three thousand two hundred two.

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10. Place commas correctly and write the numerals: (a) Seventy three lakh seventy five thousand three hundred seven. (b) Nine crore five lakh forty one. (c) Seven crore fifty two lakh twenty one thousand three hundred two. (d) Fifty eight milli

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**11.** Insert commas suitably and write the names according to Indian System of Numeration : (a) 87595762 (b) 8546283 (c) 99900046 (d) 98432701

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**12.** Insert commas suitably and write the names according to Indian System of Numeration :  
8546283

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**13.** Insert commas suitably and write the names according to Indian System of Numeration :  
99900046



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**14.** Insert commas suitably and write the names according to Indian System of Numeration : (a) 87595762 (b) 8546283 (c) 99900046 (d) 98432701



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**15.** Insert commas suitably and write the names according to International System of Numeration : (a) 78921092 (b) 7452283 (c) 99985102 (d) 48049831



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**16.** Insert commas suitably and write the names according to International System of Numeration : (a) 78921092 (b) 7452283 (c) 99985102 (d) 48049831

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**17.** Insert commas suitably and write the names according to International System of Numeration : (a) 78921092 (b) 7452283 (c) 99985102 (d) 48049831

 [Watch Video Solution](#)

**18.** Insert commas suitably and write the names according to International System of Numeration : (a) 78921092 (b) 7452283 (c) 99985102 (d) 48049831





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## Ncert Section 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 days were respectively 1094, 1812, 2050 and 2751. Find the total number of tickets sold on all the four days.



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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?



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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?



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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?



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

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

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7. 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?



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**8.** A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer? (Hint: Do you need to do both the multiplications?)



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



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10. Medicine is packed in boxes, each weighing  $4\text{kg } 500\text{g}$ . How many such boxes can be loaded in a van which cannot carry beyond  $800\text{kg}$

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11. The distance between the school and the house of a student's house is  $1\text{km}$  and  $875\text{m}$ . Everyday she walks both ways. Find the total distance covered by her in six days

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

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## Ncert Section Exercise 1 3

1. Estimate each of the following using general rule: (a)  $730 + 998$  (b)  $796\ 314$  (c)  $12,904 + 2,888$  (d)  $28,292\ 21,496$  Make ten more such examples of addition, subtraction and estimation of their outcome.

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2. Estimate each of the following using general rule:

$$730 + 998$$

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3. Estimate each of the following using general rule:

$$730 + 998$$



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4. Estimate each of the following using general rule:

$$730 + 998$$



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

$$439 + 334 + 4,317$$



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6. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens) : (a)  $439 + 334 + 4,317$  (b)  $1,08,734$   $47,599$  (c)  $8325$   $491$  (d)  $4,89,348$   $48,365$  Make four more such examples.

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7. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens) : (a)  $439 + 334 + 4,317$  (b)  $1,08,734$   $47,599$  (c)  $8325$   $491$  (d)  $4,89,348$   $48,365$  Make four more such examples.

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

$$4,89,348 - 48,365$$



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

$$578 \times 161$$



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

$$5281 \times 3491$$



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11. Estimate the following products using general rule:

$$1291 \times 592$$



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12. Estimate the following products using general rule:

$$9250 \times 29$$



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## Exercise Multiple Choice Questions Level 1

1. The place value of the digit 6 in the number 576238 is \_\_\_\_\_.

A. 6200

B. 6

C. 6000

D. 1000

**Answer: C**



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2. 6580 rounds off to the nearest thousands is \_\_\_\_\_.

A. 7000

B. 6000

C. 6600

D. 6500

**Answer: A**



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**3.** The Roman numeral of 92 is \_\_\_\_\_ .

A. CXII

B. XCII

C. LIV

D. LVIII

**Answer: B**



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4. Forty six thousand eight hundred forty two in numerals is

\_\_\_\_\_ .

A. 46428

B. 46248

C. 46842

D. 64824

**Answer: C**



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5. Which of the following numbers in Roman numerals is incorrect?

A. LXXX

B. LXX

C. LX

D. LLX

**Answer: D**



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**6.** How many zeroes are there in ten lakh?

A. 6

B. 7

C. 8

D. 4

**Answer: A**



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7. The Hindu-Arabic numeral for MCV is \_\_\_\_\_.

- A. 1115
- B. 1105
- C. 1015
- D. 1150

**Answer: B**



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8. The symbol I can be subtracted from \_\_\_\_\_.

A. V only

B. X only

C. L only

D. Both V and X

**Answer: D**



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9. Which of the following set of numbers are arranged in descending order?

A. 1356, 1635, 1520, 1536



B. 1635, 1520, 1356, 1536

C. 1356, 1520, 1536, 1635

D. 1635, 1536, 1520, 1356

**Answer: D**



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**10.** The successor of 1 million is

A. 2 millions

B. 1000001

C. 100001

D. 10001

**Answer: B**



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**11.** The number 35769 rounds off to the nearest hundred is \_\_\_\_\_ .

A. 4000

B. 36000

C. 35800

D. 35000

**Answer: C**



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12. The expanded form of 40,02,382 is \_\_\_\_\_.

A.

$$4 \times 10,00,000 + 2 \times 1,00,000 + 3 \times 1,000 + 8 \times 10 + 2$$

B.  $4 \times 10,00,000 + 2 \times 1,000 + 3 \times 100 + 8 \times 10 + 2$

C.  $4 \times 1,00,000 + 2 \times 10,000 + 3 \times 1,000 + 8 \times 1$

D. None of these

**Answer: B**



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13. The sum of largest 6-digit number and smallest 6-digit number is \_\_\_\_\_.

A. 100000

B. 1999999

C. 99999

D. 1099999

**Answer: D**



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**14.** Which of the following numbers is written according to International System of Numeration?

A. 15,26,430

B. 1,526,430

C. 1,52,64,30

D. None of these

**Answer: B**



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15. The number 6242530 is written in words as \_\_\_\_\_.

- A. six million two hundred forty two thousand thirty.
- B. sixty two lakh forty two thousand five hundred thirty.
- C. sixty lakh forty thousand five hundred thirty.
- D. sixty two lakh forty thousand five hundred thirty.

**Answer: B**



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16. The largest 4-digit number that can be formed with the digits 0,3,6,8 (without repetition) is \_\_\_\_\_.

A. 0836

B. 8036

C. 8603

D. 8630

**Answer: D**



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17. How many millilitres are there in 1 kl?

A. 100000

B. 1000

C. 1000000

D. 100

**Answer: C**



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**18.** Which of the following letters does not represent the Roman numeral?

A. D

B. N

C. C

D. I

**Answer: B**



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**19.** The estimated product of  $102 \times 92$  is \_\_\_\_\_ .

A. 9500

B. 9000

C. 9800

D. 9400

**Answer: B**



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20. Which of the following numbers is the smallest?

- A. Ten lakh three
- B. One million five thousand
- C. One million
- D. One crore

**Answer: C**



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21. Which of the following is true?

- A.  $IV < VI$
- B.  $XXIX > XXXI$

C. XIX gt XXI

D. XIII = XIV

**Answer: A**



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**22.** The piece of cloth required for a shirt is 2 m 85 cm. How much cloth will be required for 16 such shirts ?

A. 45 m 16 cm

B. 45 m 60 cm

C. 50 m 60 cm

D. 32 m 60 cm

**Answer: B**



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23. Estimated difference of  $(673 - 258)$  to the nearest hundreds is \_\_\_\_\_.

A. 700

B. 300

C. 400

D. None of these

**Answer: C**



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24. Place value of a digit in a number is \_\_\_\_\_ .

- A. Face value  $\times$  value of the just preceding place it occupies in place value chart
- B. Face value  $\times$  value of the place it occupies in the place value chart
- C. Face value
- D. None of these

**Answer: B**



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**25.** Smallest 6-digit number formed by using digits 5, 0, 3, 2, 6, 1 each only once is \_\_\_\_\_ .

A. 032615

B. 102356

C. 102365

D. 012356

**Answer: B**



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**26. Convert CDXCIV into Hindu-Arabic numeral.**

A. 664

B. 494

C. 666

D. 495

**Answer: B**



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**27.** Find the difference in the place values of two fives in the numeral 574513.



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**28.** Find the estimated difference of  $93125 - 76036$  to the nearest ten thousands.

A. 10000

B. 9000

C. 99000

D. 9800

**Answer: A**



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**29.** The largest four digit even number that can be formed with the digits 0, 7, 3, 6 (without repetition) is

A. 7036

B. 0736

C. 3067

D. 7630

**Answer: D**



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30. The Roman numeral for 1506 is \_\_\_\_\_ .

- A. DCVI
- B. MDVI
- C. MDVI
- D. MDIV

**Answer: B**



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31. Find the sum of the place values of 7 in 43, 726, 787.

- A. 700700



B. 707007

C. 700707

D. 70700

**Answer: C**



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**32.** The difference between the face value and the place value of 5 in 85419 is \_\_\_\_\_ .

A. 4995

B. 4950

C. 4559

D. 4955

**Answer: A**



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**33. One million = .....**

A. 1 lakh

B. 10 lakh

C. 100 lakh

D. 1 crore

**Answer: B**



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34. The value of  $95 \times (100 - 23)$  is \_\_\_\_\_ .

A. 8315

B. 7315

C. 8185

D. 7185

**Answer: B**



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35. A student multiplied 2736 by 35 instead of 53. How much was his answer smaller than the correct one?

A. 41040

B. 24624

C. 49248

D. 20520

**Answer: C**



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## Exercise Multiple Choice Questions Level 2

1. 3,00,000 people visited a park in 200 days and same number of people visited the park everyday. How many people visited the park in 1 day?

A. 15000

B. 150

C. 1500

D. 3000

**Answer: C**



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2. When a Roman numeral of smaller value is put between two numbers of greater value, it is subtracted from the numeral on its \_\_\_\_\_ .

A. Left

B. Right

C. Both sides

D. Next numeral from left

**Answer: B**



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3. Which of the following sets of Roman numerals are written in ascending order?

A.  $V, L, X, I$

B.  $I, V, L, X$

C.  $I, V, X, L$

D.  $X, V, I, L$

**Answer: C**



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4. Which of the following is a possible Roman number?

A. MCDVXII

B. MCDXIV

C. MMMXVIX

D. MMDMXXII

**Answer: B**



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5. Millions period consists of the places \_\_\_\_\_ .

A. M, TM

B. M, TM, HM

C. TTH, HTH, M

D. O, T, M

**Answer: B**



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**6.** Find the difference between the greatest and the smallest number that can be formed using the digits 6, 2, 0, 4, 3, each only once.

A. 43974

B. 61974

C. 40860



D. 36972

**Answer: A**



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7. Sangeeta types 25 pages per day. How many pages will she type in the month of November?

A. 900

B. 800

C. 700

D. 750

**Answer: D**



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8. Take two digits 0 and 1. Make the greatest 4-digit number using both the digits equal number of times.

A. 1100

B. 1001

C. 1010

D. None of these

**Answer: A**



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9. The difference between the largest three digit number and the largest three digit number with distinct digits is \_\_\_\_\_ .

A. 10

B. 0

C. 12

D. 13

**Answer: C**



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**10.** The difference between the place value and face value of 8 in the greatest number formed using digits 6, 9, 4, 2, 8, 7 each only once is \_\_\_\_\_ .

A. 0

B. 42

C. 7935

D. 79992

**Answer: D**



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**11. Which of the following is meaningless ?**

A. XLVI

B. IC

C. LXXIX

D. DLXIX

**Answer: B**



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12. The smallest 4-digit number formed using any four different digits such that 5 is at ones place is \_\_\_\_\_ .

A. 1025

B. 1205

C. 1250

D. None of these

**Answer: A**



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13. 100 bags contain 5000 kg of wheat. How many bags will be needed to pack 13650 kg of wheat?

A. 273

B. 237

C. 373

D. 337

**Answer: A**



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14. If  $502034 = 500000 + n + 30 + 4$ , then the value of  $n$  is

\_\_\_\_\_ .

A. 2

B. 20

C. 200

D. 2000

**Answer: D**



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15. The place value of 7 in 527094 is the same as \_\_\_\_\_ .

A.  $7000 + 1094$

B.  $7094 - 90$

C.  $6094 + 906$

D.  $8094 - 94$

**Answer: C**



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## Exercise Match The Following

1. In this section, each question has two matching lists. Choices for the correct combination of elements from List-I and List-II are given as options (a), (b), (c) and (d) out of which one is correct.

Match the following :

List-I	List-II
(P) 1 lakh	1. 100 tens
(Q) 1 thousand	2. 1 million
(R) 1 crore	3. 100 thousands
(S) 10 lakh	4. 10 millions

- A. P-1, Q-2, R-3, S-4
- B. P-3, Q-1, R-2, S-4
- C. P-3, Q-1, R-4, S-2
- D. P-4, Q-2, R-3, S-1



**Answer: C**



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2. In this section, each question has two matching lists. Choices for the correct combination of elements from List-I and List-II are given as options (a), (b), (c) and (d) out of which one is correct.

Match the following :

<b>List-I</b>	<b>List-II</b>
(P) XLIX	1. 55
(Q) LV	2. 99
(R) XCIX	3. 1500
(S) MD	4. 49

A. P-2, Q-3, R-1, S-4

B. P-4, Q-3, R-2, S-1

C. P-2, Q-1, R-4, S-3

D. P-4, Q-1, R-2, S-3

**Answer: D**



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**3.** In this section, each question has two matching lists. Choices for the correct combination of elements from List-I and List-II are given as options (a), (b), (c) and (d) out of which one is correct.

Match the following :

List-I	List-II
(P) Round off 2687 to the nearest 1000 is	1. 111111
(Q) Nine million forty six thousand one hundred fifty is	2. 5,23,605
(R) $5 \times 1,00,000 + 2 \times 10,000 + 3 \times 1,000 + 6 \times 100 + 5$ is equal to	3. 9046150
(S) Smallest 6-digit number using only one digit is	4. 3000

A. P-2, Q-1, R-3, S-4

B. P-4, Q-3, R-2, S-1

C. P-1, Q-2, R-3, S-4

D. P-4, Q-2, R-3, S-1

**Answer: B**



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## Exercise Assertion Reason Type

1. Directions : In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statements, mark the correct answer as

Assertion : Smallest 7-digit number using only digit one is 1000000.

Reason : Smallest number is obtained by putting the smallest digit at the left most place except 0.

- A. If both assertion and reason are true and reason is the correct explanation of assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

**Answer: D**



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**2. Directions :** In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statements, mark the correct answer as

**Assertion :** The place value and face value of digit 8 in 18,002,403 is  $8 \times 1,000,000$  and 8 respectively.

**Reason :** Place value is value of digit itself and face value depends upon the place it occupies.

- A. If both assertion and reason are true and reason is the correct explanation of assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of assertion.
- C. If assertion is true but reason is false.
- D. If assertion is false but reason is true.

**Answer: C**



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**3. Directions :** In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statements, mark the correct answer as

Assertion : After placing comma in the number 56943821 according to International System of Numeration, the number is written as 56,943,821.

Reason : To write a numeral in the Indian System, commas are first put after three digits from the right and then after every two digits.

- A. If both assertion and reason are true and reason is the correct explanation of assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of assertion.
- C. If assertion is true but reason is false.
- D. If assertion is false but reason is true.

**Answer: B**



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4. Directions : In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statements, mark the correct answer as

Assertion : Estimated sum of 8001 and 457 is 8500.

Reason : Estimation is done by rounding off the numbers to the nearest places.

- A. If both assertion and reason are true and reason is the correct explanation of assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of assertion.
- C. If assertion is true but reason is false.



D. If assertion is false but reason is true.

**Answer: A**



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**5. Directions :** In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statements, mark the correct answer as

**Assertion :** Roman numeral of 1400 is MDC.

**Reason :** A symbol is placed before the symbol of greater value, the symbol of lesser value is subtracted.

A. If both assertion and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

**Answer: D**



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## Exercise Multiple Choice Questions Comprehension Type

1.  $1 \text{ kg} = 1000 \text{ grams} = 1000000 \text{ mg}$  and  $1 \text{ m} = 100 \text{ cm} = 1000 \text{ mm}$ .

Convert 3 kg 15 grams into milligrams.

A. 3015000 mg

B. 301500 mg

C. 3015 mg

D. None of these

**Answer: A**



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2. PASSAGE-I:  $1 \text{ kg} = 1000 \text{ grams} = 1000000 \text{ mg}$  and  $1 \text{ m} = 100 \text{ cm} = 1000 \text{ mm}$ .

Neena bought 5 kg 500 g wheat from the market. She filled a container which could take 400 g of wheat. How much wheat is left out?

A. 5000 g

B. 5400 g

C. 5500 g

D. 5100 g

**Answer: D**



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**3. PASSAGE-I:**  $1 \text{ kg} = 1000 \text{ grams} = 1000000 \text{ mg}$  and  $1 \text{ m} = 100 \text{ cm} = 1000 \text{ mm}$ .

3 m 20 cm of cloth is used for one shirt. What length of cloth will be used for 3 such shirts?

A. 6 m 90 cm

B. 9 m 60 cm

C. 9600 cm

D. 1 m 60 cm

**Answer: B**



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## Exercise Comprehension Type

1.

Symbol	I	X	L	C	D	M
Value	1	10	50	100	500	1000

What is the Roman numeral of 70?

A. XXL

B. XXC

C. CXX

D. LXX

**Answer: D**



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**2. PASSAGE-II :**

Symbol	I	X	L	C	D	M
Value	1	10	50	100	500	1000

Find the sum of LX and XC.

A. 160

B. 150

C. 140

D. 130

**Answer: B**



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**3. PASSAGE-II :**

Symbol	I	X	L	C	D	M
Value	1	10	50	100	500	1000

4

Hindu - Arabic numeral of MV is

- A. 1500
- B. 1005
- C. 1400
- D. 995

**Answer: B**



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## Exercise Subjective Problems Very Short Answer Type

1. Write expressions for the following using brackets. "Forty nine divided by three times the sum of five and seven".

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2. Express "Eight crore five thousand six" in numerals.

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3. Rearrange the given numbers in ascending order.

5, 90, 672; 5, 09, 762; 2, 69, 705; 7, 06, 259; 9, 07, 526.





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4. Compare : 40017 \_\_\_ 40007



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5. What is the largest 5-digit number with 2 at ones place and 3 at tens place ?



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6. Write the Hindu-Arabic numeral of CCL.



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7. Find the sum of the place values of 7 and 4 in 43, 627, 897.



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8. Find the product by suitable estimation,  $1211 \times 321$ .



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9. Write the smallest 8-digit number having five different digits.



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10. Insert commas according to Indian System of Numeration:

28754263



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11. Insert commas according to Indian System of Numeration:

3864259



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## Exercise Subjective Problems Short Answer Type

1. Write the number names of each of the following:

534, 567, 891



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2. Write the number names of each of the following:

23, 46, 891

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3. Write the number names of each of the following:

386, 212

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4. Write the number names of each of the following:

2, 12, 42, 861

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5. The total expenses of a birthday party of 30 boys were Rs. 15,000. All shared the expenses equally. How much money was spent by each boy in the party?

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6. Use the given digits 2, 3, 8, 9, 0 without repetition and make the greatest and smallest 5-digit numbers.

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7. Estimate the sum of 5390 and 715 by rounding off the numbers to their nearest hundreds and tens respectively.

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**8.** Estimate the following :

$$898 \times 595$$



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**9.** Estimate the following :

$$1368 \times 2105$$



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**10.** Estimate the following :

$$1913 - 913$$



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**11.** Write the numerals with commas of each of the following:

Six million fifty thousand three hundred six.



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**12.** Write the numerals with commas of each of the following:

Twenty six lakh forty eight thousand two hundred five.



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**13.** Write the numerals with commas of each of the following:

Eight hundred eight million eighty thousand eight hundred eight.



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**14.** Write the numerals with commas of each of the following:

Two crore twenty lakh twenty two thousand two hundred two.



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**15.** Write the following in expanded form.

286542



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**16.** Write the following in expanded form.

19360654



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17. Write the following in expanded form.

1212121



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18. Compare the following by using  $<$  ,  $>$  or  $=$  .

XXVIII, 29



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19. Compare the following by using  $<$  ,  $>$  or  $=$  .

42, XLII



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20. Compare the following by using  $<$  ,  $>$  or  $=$  .

386, CCL



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21. Compare the following by using  $<$  ,  $>$  or  $=$  .

460, DC



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22. Write the following in standard form.

70, 00, 000 + 80, 000 + 900



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**23.** Write the following in standard form.

$$4,00,000 + 50,000 + 5,000 + 50 + 5$$



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**24.** Write the following in standard form.

$$36,000 + 400 + 20 + 5$$



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**25.** Simplify the following using brackets.

$$428 \times 20$$



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**26.** Simplify the following using brackets.

$$98 \times 102$$



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**27.** Simplify the following using brackets.

$$305 \times 40$$



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**28.** Simplify the following using brackets.

$$36 \times 48$$



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## Exercise Subjective Problems Long Answer Type

1. Insert comma in the following numbers according to Indian and International System of Numeration.

321543302

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2. Insert comma in the following numbers according to Indian and International System of Numeration.

136843

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3. Rani bought 6 bags of cement, each weighing 18 kg 300 g.

Find the total weight of cement.



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4. Exchange the 2<sup>nd</sup> and 4<sup>th</sup> digits of the numeral 4,92,576 and find the new number formed. Also identify the place value of digit 5 in the new number.



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5. Find the sum.

$$MCD + CCL + DCL$$



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6. Find the sum.

$$MMCDVII + CLVII + CIII$$



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7. Find the sum.

$$\overline{XXIII} + XLVII + \overline{XXX}$$



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8. Find the sum.

$$MXXVIII + DCVII + DVIII$$



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9. Write the following in Roman numerals.

497



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10. Write the following in Roman numerals.

6219



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11. Write the following in Roman numerals.

23432



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12. Write the following in Roman numerals.

3261



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13. Write the following in Roman numerals.

48250



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14. Write the following in Roman numerals.

888



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15. Write the following in Roman numerals.

118



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16. Write the following in Roman numerals.

96



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## Exercise Integer Numerical Value Type

1. What is the digit at the thousands place of 7, 21, 584?



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2. Which digit of the number 871,253,564 has the same face and place value?



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3. The face value of 7 in 4,26,76,254 is \_\_\_\_\_ .



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4. What is the Hindu-Arabic numeral for XCV?



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5. What does the Roman numeral VIII represents?



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6. What is the product of digits of a round off number, if the number is 112?

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7. Estimate the difference of 803 and 450.

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8. What is sum of digits of the greatest 4-digit number formed by two different digits?

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9. How many zeroes are there in ten lakh?



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10. What is the product of digits at the 100 thousands and ten millions place of the given number 16, 732, 496?



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## Olympiad Hots Corner

1. Which of the following statements is/are incorrect?

- (i) Eighty four in Roman numeral is written as CXXXIV.
- (ii) There are seven zeroes in 1 crore.
- (iii) There are ten thousand milligrams in 1 kg.

(iv) The smallest 4-digit number formed by using all the digits

4, 3, 0, 8 without repetition is 3048.

A. Both (i) and (iii)

B. Both (i) and (iv)

C. Only (i)

D. Only (iii)

**Answer: A**



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2. Latika, Garima and Sanchi draw 3 cards each from 9 cards numbered from 1 to 9.

Latika: L, Garima: G, Sanchi: S

L : The product of my numbers is 48.

G : The sum of my numbers is 15.

S : The product of my numbers is 63.

What is the sum of numbers on the cards drawn of Latika and Sanchi?

A. 28

B. 32

C. 30

D. 45

**Answer: C**



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**3.** A truck can carry 582 boxes of biscuits weighing 16 kg each, whereas a van can carry 359 such boxes. Find the total weight

that can be carried by both the vehicles.

A. 20000 kg

B. 15056 kg

C. 25000 kg

D. 12000 kg

**Answer: B**



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**4. Select the correct statement**

A. 1592 rounded off to nearest tens is 1600.

B. 7532 rounded off to nearest thousands is 7500.

C. 245 rounded off to nearest hundreds is 240.



D. 214653 rounded off to nearest ten thousands is 210000.

**Answer: D**



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5. A cold storage company had a stock of 58970252 egg trays. Out of this stock, 3789441 egg trays were sent to Delhi and 4207985 egg trays were sent to Punjab for public consumption. How much is the exact eggs count left with company, if an egg tray contains 30 eggs?

A. 1529184780

B. 1509184780

C. 1529084780

D. 1529184880

**Answer: A**



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6. The value of  $CMLXXXII + CCLIV$  is \_\_\_\_\_ .

A. CDLXV

B. MCCCLXV

C. MCCXXXVI

D. MCMXCVI

**Answer: C**



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7. Find the difference between 7234042 rounded to the nearest thousands and 42568 rounded to the nearest hundreds.

A. 7191400

B. 7191470

C. 7192000

D. 7191000

**Answer: A**



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8. Find the estimated difference between 16928 and 8952 by rounding off each number to nearest hundreds.

A. 7900

B. 8000

C. 7800

D. 7976

**Answer: A**



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9. Find the value of

$$LVIII + XXN + LXXXIX + XXXII - XCIV$$

A. XCIX

B. XCVIII

C. CIX

D. CVII

**Answer: C**



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**10.** The number 7250371 is written in International System of Numeration as \_\_\_\_\_ .

A. Seventy two lakh fifty thousand three hundred seventy one.

B. Seven million twenty five thousand three hundred seventy one.

C. Seven million two hundred fifty thousand three hundred seventy one.

D. None of these

**Answer: C**



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**11.** Find the difference between the smallest 5-digit number and the greatest 5-digit number formed by using the digits 6, 8, 2, 5 and 9 (using each digit only once).

A. 27936

B. 72963

C. 56293

D. 39576

**Answer: B**



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12. Which of the following options gives the result CCC?

A. MXIII- DCCXIV

B. LXIV + CCXXVI

C. CXXIX + CLXXI

D. XCVI + CCII

**Answer: C**



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13. Vidhi writes the smallest 6-digit number and Ridhi writes the greatest 7-digit number on the blackboard. Their Maths

teacher finds the difference between the smallest 4-digit number and the sum of the two numbers written on the blackboard. What would be the answer?

A. 10099999

B. 10098999

C. 19999890

D. 10069998

**Answer: B**



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**14.** If a number is formed by interchanging the digits at tens and thousands places of 7939, then which of the following is correct?



A. New number  $>$  Original number

B. New number  $<$  Original number

C. New number = Original number

D. None of these

**Answer: B**



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15. Divide the place value of 5 in 256798 by 1 less than the predecessor of 10002.

A. 501

B. 50

C. 5001

D. 5

**Answer: D**



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**16.** The number 90406092 is written in International System of Numeration as

- A. Nine crore forty lakh sixty thousand ninety two
- B. Ninety million forty lakh six thousand ninety two
- C. Ninety million four hundred six and ninety two
- D. Ninety million four hundred six thousand ninety two

**Answer: D**



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17. Match the following and select the correct option.

**Column-I**

**Column-II**

- |  |              |
|--|--------------|
| (P) 40 lakh = _____ million                          | (i) 384      |
| (Q) The value of $V \times C \times M \times X$ is   | (ii) 5000000 |
| (R) The value of $CXVI + XIII + VI + CCLXV - XVI$ is | (iii) 200000 |
| (S) Estimated product of 2038 and 123 is             | (iv) 4       |

- A. (P)  $\rightarrow$  (iv), (Q)  $\rightarrow$  (ii), (R)  $\rightarrow$  (iii), (S)  $\rightarrow$  (i)
- B. (P)  $\rightarrow$  (ii), (Q)  $\rightarrow$  (iv), (R)  $\rightarrow$  (i), (S)  $\rightarrow$  (iii)
- C. (P)  $\rightarrow$  (ii), (Q)  $\rightarrow$  (iv), (R)  $\rightarrow$  (iii), (S)  $\rightarrow$  (i)
- D. (P)  $\rightarrow$  (iv), (Q)  $\rightarrow$  (ii), (R)  $\rightarrow$  (i), (S)  $\rightarrow$  (iii)

**Answer: D**



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18. Which of the following statements is incorrect?

- A. The symbol X can be subtracted from L and C only.
- B. V, L and D are never repeated.
- C. V, L and D are never subtracted
- D. I or V can be written to the left of L or C.

**Answer: D**



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19. 80325901 can be written in words as

- A. Eight crore thirty two lakh five thousand nine hundred one
- B. Eight crore three lakh twenty five thousand nine hundred one
- C. Eighty lakh thirty two thousand nine hundred one
- D. Eighty crore thirty two lakh five thousand nine hundred one

**Answer: B**



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**20.** Latika's monthly salary was Rs. 30525. She spent Rs. 1800 and saved the rest. How much did she save in a year?

A. Rs. 344700

B. Rs. 315975

C. Rs. 248960

D. Rs. 212840

**Answer: A**



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