





### 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

2. Write the following numbers in the expanded form.

60, 01, 009

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<b>3.</b> 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

View Text Solution
<b>6.</b> 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?

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



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

Numeration :

16289519

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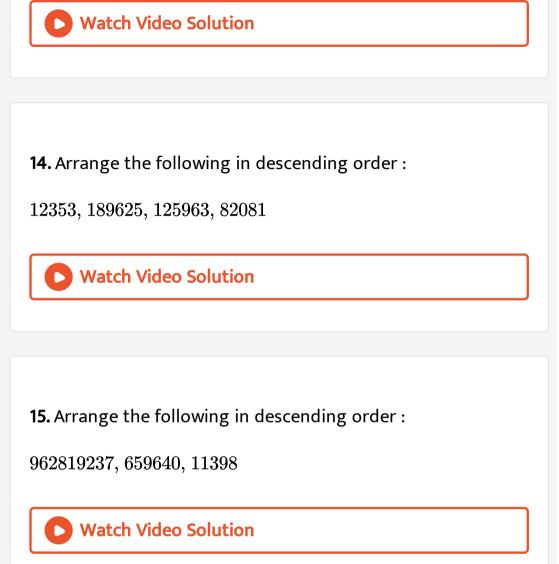
12. Form the largest 4 - digit number using any

4, 9, 8



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

7, 3, 0



16. Write the following in words according to International

System of Numeration :

123527891



17. Write the following in words according to International

System of Numeration :

183523512



18. Write the following in words according to International

System of Numeration :

9058009



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

2348828

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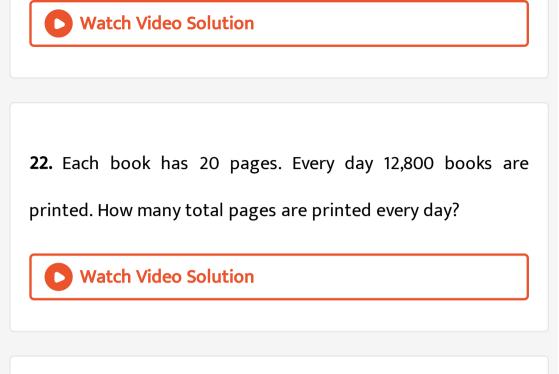
**20.** Make the greatest and the smallest 5 - digit numbers

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.



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

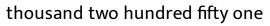
Seven crore thirty two lakh fifty four thousand two hundred

sixty three

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

One hundred eighty five million three hundred twenty three





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

Sixty two lakh nine thousand six hundred nineteen



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

Two million three hundred forty six thousand eight hundred

twenty five



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

One hundred million two hundred thousand three hundred



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

CLIX



29. Express the following as Hindu - Arabic numerals.

MCDX

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

MDCXC

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<b>31.</b> Arrange the following in ascending order.
<b>51.</b> Allange the following in ascending order.
39126, 39216, 42216, 38158, 41206
<b>Watch Video Solution</b>
<b>32.</b> Arrange the following in ascending order.

99896, 98996, 99986, 99968, 89996

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

3298+6281



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

1215+987



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

3940 + 1850

36. Exchange the digits 2 and 7 of the following numbers and

compare the new number with the previous one :

172984



37. Exchange the digits 2 and 7 of the following numbers and

compare the new number with the previous one :

578582



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

5693 - 3254





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

3961 - 1280



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

7612-2893



**41.** Simplify the following :

48 + (100 - 4)



**42.** Simplify the following :

105 imes (20-10)



43. Simplify the following :

 $36 + (40 \times 20)$ 

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

 $72\times439$ 

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

96 imes 385

View Text Solution

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

342 imes 248

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

9 imes108

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

40 imes 150



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

38 imes 96

50. Compare the following :

98465, 98015

<b>O</b> Watch Video Solution
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**51.** Compare the following :

328450, 314650

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**52.** Compare the following :

248660, 24866

**1.** Compare the following :

9242 and 367

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**2.** Compare the following :

5640 and 5784

View Text Solution

3. Compare the following :

8263 and 7893

**View Text Solution** 

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.

 $4285,\,631,\,2892,\,3800,\,4504$ 

Watch Video Solution

6. Form the smallest and largest 4-digit number in each of the

following without repeating the digits.

3, 8, 6, 1

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



**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.

View Text Solution

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

38, 96, 405

**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



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

 $326\underline{1}52$ 



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



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

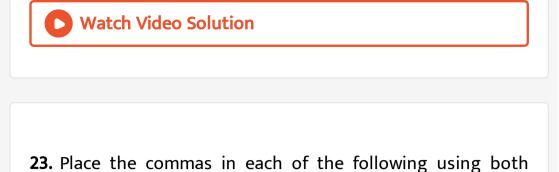
Indian and International System of Numeration.

1232843

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

920040



Indian and International System of Numeration.

86920605

**O** Watch Video Solution

**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?



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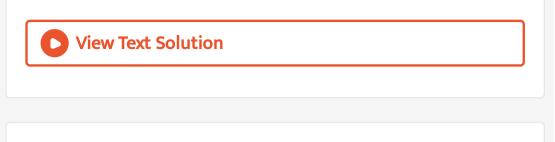
**26.** Estimate each of the following by rounding off to nearest thousands.

9683+4815



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

thousands.



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

thousands.

3042 imes 1101

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

hundreds.

482 + 691 + 3413

View Text Solution

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

hundreds.

8215 - 389



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

hundreds.

5632+8888

View Text Solution

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

hundreds.

932 - 800





**33.** Simplify :

1586 - (300 + 821)

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34. Simplify :

3281 + (241 - 130)

> Watch Video Solution

35. Simplify :

 $126 + (15 \times 13)$ 

36. Simplify :

198 imes (42 + 58)

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37. By using brackets, solve the following :

92 imes 48

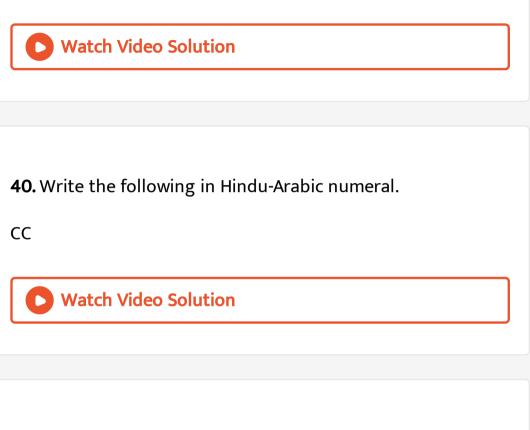
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38. By using brackets, solve the following :

32 imes 104

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

#### XXX



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

MM

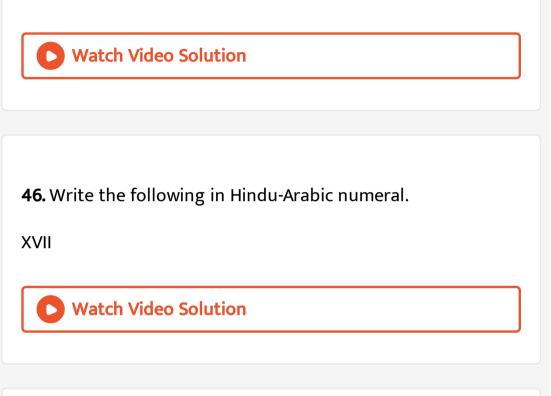
**42.** Write the following in Roman numeral.

20

Vatch Video Solution
<b>43.</b> Write the following in Roman numeral. 300
<b>Watch Video Solution</b>
<b>44.</b> Write the following in Roman numeral.
Vatch Video Solution

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

#### LXX



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

MCII

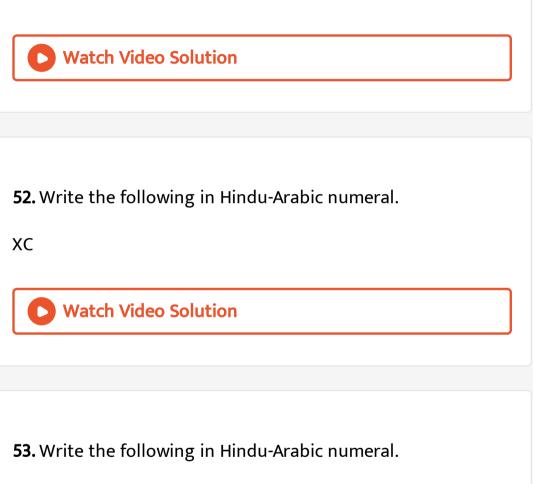
**48.** Write the following in Roman numeral.

86

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<b>49.</b> Write the following in Roman numeral. 38
Vatch Video Solution
<b>50.</b> Write the following in Roman numeral.
<b>Watch Video Solution</b>

51. Write the following in Hindu-Arabic numeral.

XL



СМ

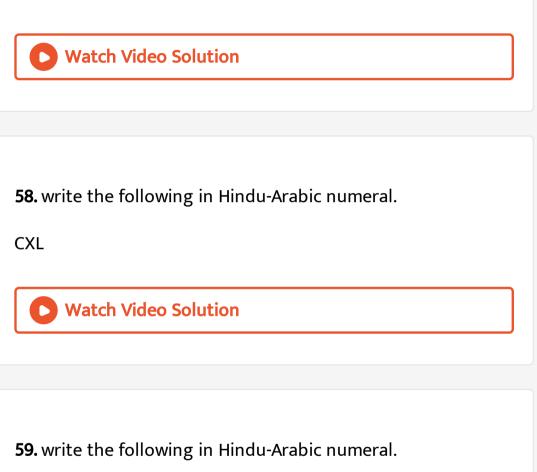
**54.** Write the following in Roman numeral.

4

Vatch Video Solution
<b>55.</b> Write the following in Roman numeral.
9
Vatch Video Solution
56. Write the following in Roman numeral.
400
Vatch Video Solution

57. write the following in Hindu-Arabic numeral.

XIV



MCD

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

1090

Vatch Video Solution
<b>61.</b> Write the following in Roman numeral.
Vatch Video Solution
<b>62.</b> Write the following in Roman numeral. 19
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**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.

4. Fill in the blanks:

1 crore = \_\_\_ million.

Watch Video Solution

5. Fill in the blanks:

1 million = \_\_\_ lakh.

Watch Video Solution

6. Place commas correctly and write the numerals:

Seventy three lakh seventy five thousand three hundred

seven.

**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



8. Place commas correctly and write the numerals:

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



9. Place commas correctly and write the numerals:

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



**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



**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 :

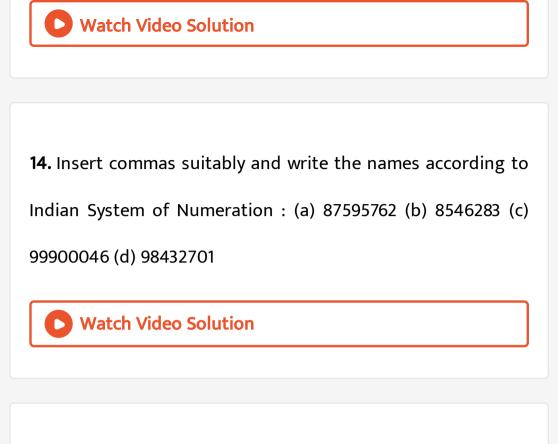
8546283

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13. Insert commas suitably and write the names according to

Indian System of Numeration :

99900046



**15.** Insert commas suitably and write the names according to

International System of Numeration : (a) 78921092 (b)

7452283 (c) 99985102 (d) 48049831



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

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

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



### Ncert Section Exercise 12

**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?



**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?



**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 to gether ? In which week was the sale greater and by how much?



**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?



**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?



**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?



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

**D** Watch Video Solution

**11.** The distance between the school and the house of a student's house is 1km and 875m. 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 500ml of curd. In how many glasses, each of 25ml capacity, can it be filled?



**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.



2. Estimate each of the following using general rule:

730+998



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

730+998

<b>Vatch Video Solution</b>
<b>4.</b> Estimate each of the following using general rule: $730 + 998$
<b>Vatch Video Solution</b>
<b>5.</b> Give a rough estimate (by rounding off to nearest

hundreds) and also a closer estimate (by rounding on to hearest nearest tens):

439 + 334 + 4, 317

**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.



**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.

**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 imes 161

> Watch Video Solution

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

 $5281 \times 3491$ 

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

 $1291 \times 592$ 

Watch Video Solution

12. Estimate the following products using general rule:

9250 X 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

**Watch Video Solution** 

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

A. 7000

B. 6000

C. 6600

D. 6500

Answer: A
<b>Watch Video Solution</b>
<b>3.</b> The Roman numeral of 92 is
A. CXII
B. XCII
C. LIV
D. LVIII
Answer: B
<b>Vatch Video Solution</b>

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

A. 46428

•

B. 46248

C. 46842

D. 64824

Answer: C

Watch Video Solution

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

A. LXXX

B. LXX

C. LX

D. LLX

Answer: D

**Watch Video Solution** 

6. How many zeroes are there in ten lakh?

A. 6

B. 7

C. 8

D. 4

Answer: A
Watch Video Solution
<b>7.</b> The Hindu-Arabic numeral for MCV is
A. 1115
B. 1105
C. 1015
D. 1150
Answer: B
Watch Video Solution

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

A. V only

B. X only

C. L only

D. Both V and X

Answer: D



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

 $\mathsf{A}.\,1356,\,1635,\,1520,\,1536$ 

B. 1635, 1520, 1356, 1536

C. 1356, 1520, 1536, 1635

 $\mathsf{D}.\,1635,\,1536,\,1520,\,1356$ 

### Answer: D



# 10. The successor of 1 million is

A. 2 millions

B. 1000001

C. 100001

D. 10001

# Answer: B Watch Video Solution

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

A. 4000

----- ·

B. 36000

C. 35800

D. 35000

Answer: C

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

Α.

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

Watch Video Solution

**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

**Watch Video Solution** 

**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** 

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

Watch Video Solution

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

A. D

B. N

C. C

D. I

Answer: B
Watch Video Solution
<b>19.</b> The estimated product of $102X \ 92$ is
A. 9500
B. 9000
C. 9800
D 0400
D. 9400
Answer: B
Watch Video Solution

**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



21. Which of the following is true?

A. IV lt VI

B. XXIX gt 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



**23.** Estimated difference of (673 - 258) to the nearest

hundreds is \_\_\_\_\_.

A. 700

B. 300

C. 400

D. None of these

Answer: C



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



**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



## 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



**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



**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

Watch Video Solution

**34.** The value of 95 imes (100 - 23) is \_\_\_\_\_ .

A. 8315

B. 7315

C. 8185

D. 7185

**Answer: B** 



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



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

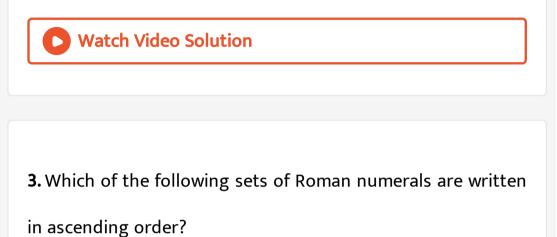
A. Left

B. Right

C. Both sides

D. Next numeral from left

### Answer: B



 $\mathsf{A}.\,V,\,L,\,X,\,I$ 

 $\mathsf{B}.\,I,\,V,\,L,\,X$ 

 $\mathsf{C}.\,I,\,V,\,X,\,L$ 

 $\mathsf{D}.X,V,I,L$ 

Answer: C

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

A. MCDVVXII

**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



**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



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



**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



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, 7each 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



**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



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

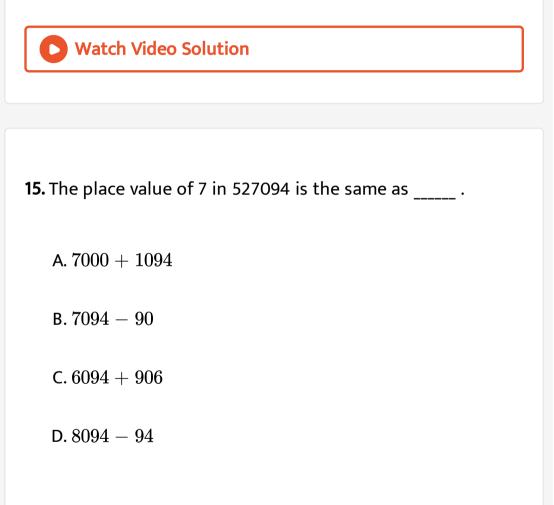
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B.20

C. 200

D. 2000

Answer: D



Answer: C



**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	e	List-II
$(\mathbf{P})$	1 lakh	1.	100 tens
$(\mathbb{Q})$	1 thousand	2.	1 million
$(\mathbb{R})$	1 crore	З.	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 :

	List-I		List-II
$(\mathbf{P})$	XLIX	1.	55
$(\mathbb{Q})$	LV	2.	99
(R)	XCIX	3.	1500
(S)	MÐ	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
$(\mathbb{P})$	Round off 2687 to	1.	111111
	the nearest 1000 is		
(Q)	Nine million forty six	2.	5,23,605

3. 9046150

- (Q) Nine million forty six 2. thousand one hundred fifty is
- (R) 5 × 1,00,000 + 2 × 10,000 + 3 × 1,000 + 6 × 100 + 5 is equal to
- (S) Smallest 6-digit number 4. 3000 using only one digit is

## 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



**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  $8 imes 1,\,000,\,000$  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



**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

**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 kg = 1000 grams = 1000000 mg and 1 m = 100 cm

= 1000 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 kg = 1000 grams = 1000000 mg and 1 m

 $=\,100~{\rm cm}~=\,1000$  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



- **3.** PASSAGE-I: 1 kg = 1000 grams = 1000000 mg and 1 m
  - = 100 cm = 1000 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.1m60cm

Answer: B

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Exercise Comprehension Type

1.

Symbol	I	Х	L	С	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

**Watch Video Solution** 

## 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



# 3. PASSAGE-II :

Symbol	I	Х	L	С	D	M	
Value	1	10	50	100	500	1000	

Hindu - Arabic numeral of MV is

A. 1500

B. 1005

C. 1400

D. 995

**Answer: B** 



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.



3. Rearrange the given numbers in ascending order.
5, 90, 672; 5, 09, 762; 2, 69, 705; 7, 06, 259; 9, 07, 526.





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

**Watch Video Solution** 

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

3 at tens place?



6. Write the Hindu-Arabic numeral of CCL.

7. Find the sum of the	place values of 7	' and 4 in $43,627,8$	397.
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<b>8.</b> Find the product by suitable estimation, $1211 imes321$ .
<b>Watch Video Solution</b>

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



10. Insert commas according to Indian System of Numeration:

28754263



**11.** Insert commas according to Indian System of Numeration:

3864259



Exercise Subjective Problems Short Answer Type

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

 $534,\,567,\,891$ 





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

Watch Video Solution

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

 $2,\,12,\,42,\,861$ 

**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.

8. Estimate the following :

 $898\times595$ 

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9. Estimate the following :

 $1368\times2105$ 

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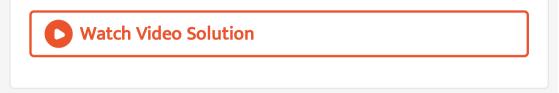
10. Estimate the following :

1913 - 913



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

Six million fifty thousand three hundred six.



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

Twenty six lakh forty eight thousand two hundred five.



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

Eight hundred eight million eighty thousand eight hundred eight.



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

Two crore twenty lakh twenty two thousand two hundred two.

<b>Vatch Video Solution</b>
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**15.** Write the following in expanded form.

286542

**Watch Video Solution** 

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

19360654



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

1212121

Watch Video Solution
19 Compare the following by using $\langle \rangle$ > or $-$
<b>18.</b> Compare the following by using $< , >$ or $= .$
XXVIII, 29
Watch Video Solution
<b>19.</b> Compare the following by using $< , >$ or $= .$
42, XLII
Watch Video Solution

**20.** Compare the following by using  $\langle , \rangle$  or =. 386, CCL Watch Video Solution **21.** Compare the following by using  $\langle , \rangle$  or =. 460, DC Watch Video Solution 22. Write the following in standard form. 70, 00, 000 + 80, 000 + 900

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

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

<b>Watch Video Solution</b>
<b>24.</b> Write the following in standard form.
36,000 + 400 + 20 + 5
Watch Video Solution

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

428 imes 20

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

 $98\times102$ 

<b>O</b> Watch Video Solution	

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

305 imes 40

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

36 imes 48

1. Insert comma in the following numbers according to Indian

and International System of Numeration.

321543302



2. Insert comma in the following numbers according to Indian

and International System of Numeration.

136843

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

Find the total weight of cement.



**4.** Exchange the  $2^{nd}$  and  $4^{th}$  digits of the numeral 4,92,576 and find the new n umber formed. Also identify the place value of digit 5 in the new number.



5. Find the sum.

MCD + CCL + DCL



6. Find the sum.

MMCDVII + CLVII + CIII



7. Find the sum.

 $\overline{XX}III + XLVIl + \overline{XXX}$ 



8. Find the sum.

MXXVIII + DCVII + DVIII

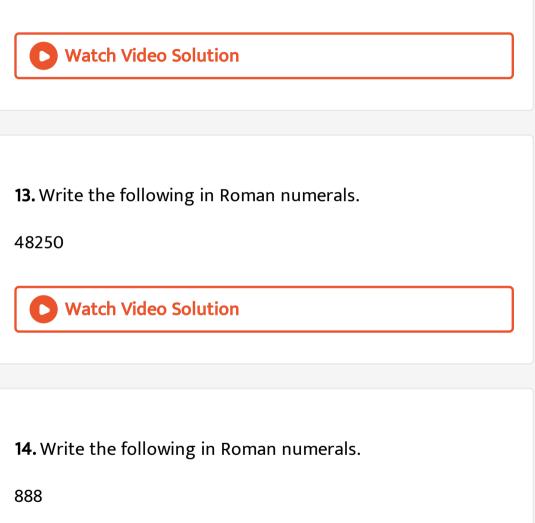
9. Write the following in Roman numerals.

497

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<b>10.</b> Write the following in Roman numerals. 6219
<b>Vatch Video Solution</b>
<b>11.</b> Write the following in Roman numerals. 23432
Vatch Video Solution

12. Write the following in Roman numerals.

3261



**15.** Write the following in Roman numerals.

118

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<b>16.</b> Write the following in Roman numerals. 96
Watch Video Solution
Exercise Integer Numerical Value Type
<b>1.</b> What is the digit at the thousands place of $7, 21, 584?$

2. Which digit of the number 871,253,564 has the same face

and place value?

Watch Video Solution
<b>3.</b> The face value of 7 in 4,26,76,254 is
Watch Video Solution
<b>4.</b> What is the Hindu-Arabic numeral for XCV?
Watch Video Solution

5. What does the Roman numeral VIII represents?





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

number is 112?

**Watch Video Solution** 

7. Estimate the difference of 803 and 450.

**Watch Video Solution** 

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

9. How many zeroes are there in ten lakh?



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 smallest4-digitnumber 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



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



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



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

# > Watch Video Solution

**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



**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



**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

<b>O</b> Watch Video Solution
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9.	Find	the	value	of

LVIII + XXN + LXXXIX + XXXII - XCIV

A. XCIX

B. XCVIII

C. CIX

D. CVII

Answer: C



**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 fitly thousand three hundred seventy one.

D. None of these

## Answer: C



**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).

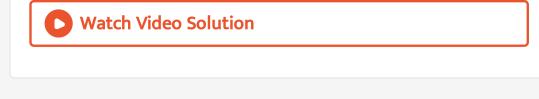
A. 27936

B. 72963

C. 56293

D. 39576

**Answer: B** 



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

A. MXIII- DCCXIV

B. LXIV + CCXXVI

C. CXXIX + CLXXI

D. XCVI + CCII

Answer: C



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

Answer: D



**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



### **17.** Match the following and select the correct option.

## Column-I

#### Column-II

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

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)

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

### Answer: D

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