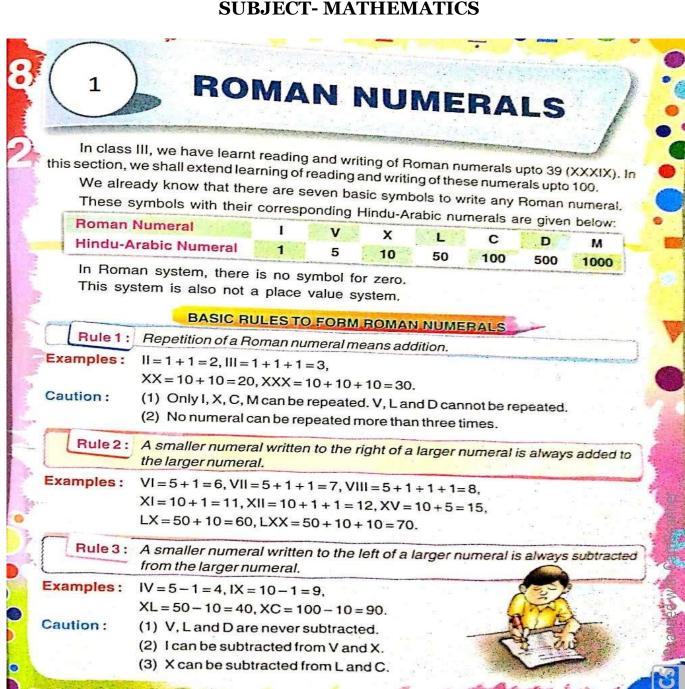


SUMMER ASSIGNMENT

CLASS-IV



Rule 4: When a smaller numeral is placed between two larger numerals, then it is always subtracted from the larger numeral immediately following it.

Examples. XIV = 10 + (5-1) = 14, XIX = 10 + (10-1) = 19.

WRITING ROMAN NUMERALS FOR HINDU-ARABIC NUMERALS UPTO 100

| Hindu-Arabic | town Danie | Hindu-Arabic Numeral | Roman Numeral |
|--------------|-----------------|-------------------------|---------------|
| Numeral | | 10 | X |
| 1 | | | XX |
| 2 | 11 | 20 | |
| 3 | 111 | 30 | XXX |
| 4 | IV | 40 | XL |
| 5 | V | 50 | L |
| 6 | VI | 60 | LX |
| 7 | VII | 70 | LXX |
| 8 | VIII | 80 | LXXX |
| 9 | IX | 90 | XC |
| | NA LINE NA LINE | 100 | С |

When we write any number upto 100 in Roman numeral, we separate the tens and ones and then first write the Roman numeral for the tens and then write the Roman numerals for the ones to the right of it.

Thus, we have:

(a)
$$52 = 50 + 2$$

(b)
$$67 = 60 + 7$$

(c)
$$78 = 70 + 8$$

(a)
$$49 = 40 + 9$$

= XLIX

(e)
$$84 = 80 + 4$$

= LXXXIV

(f)
$$96 = 90 + 6$$

= XCVI

Similarly, we have:

(b)
$$LXXI = 70 + 1 = 71$$
.

(c) LXIX =
$$60 + 9 = 69$$
.

(a)
$$XLIV = 40 + 4 = 44$$
.



| QA) Multiple Choice Questions- |
|--|
| 1. The roman numerals from which I can be subtracted are V anda. I b. X c. L d. C 2. Which of the following is meaningless? a. XIV b.XIX c. IXVI d.XXVI 3.99 is the same as a. IC b.IXIX c. XCIX d.CIX 4.22 is written in roman numerals as a. XXII b.XVVII c. VVVVII d.none of these 5. Which of the following option is the Roman numeral for 65? |
| a.LXXV b.XLV c.LVX d.LXV |
| QB) Calculation based questions. 1. Write the roman numerals for each of the following Hindu- Arabic numerals- a. 44 b.99 c. 85 2. Write the Hindu – Arabic numerals corresponding to each of the following- a. XXIX b.LV c.LXIV |
| 3. Compare the following by using>, < or = a. LXII XLII b. XCIX XCIV 4. Compare the following 1. 58+28 LXXXIV 2.81-32 L |
| QC) Word Problems- |
| Simran had 40 pencils. She shared the pencils equally into boxes. How many pencils were there in each box? (write this problem using roman numerals) My sister is 5 years younger than me. If I am 20 years old, how old is my sister? (Write the answer as using roman numerals). |

QD) Higher order thinking Questions-

- 1. Write the answers in Roman Numerals-
- a.6×7=____
- b.40+50=____
- c.960÷10=
- 2. Perform the indicated operation and write the answer in Roman Numerals-
- a. LXXX ÷VIII=____
- b. XXVIII+XXVII=____
- c.LXXXII- XLVI=____
- 3. Color the boxes that match across the three columns alike

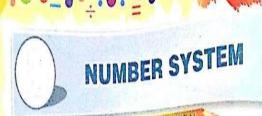
| 5 | Eighteen | XIX |
|----|----------|------|
| 9 | Seven | XVII |
| 13 | Nineteen | VII |
| 18 | Nine | XIII |
| 7 | Five | IX |
| 19 | Thirteen | V |

3. Match the following-

<u>Column A</u> <u>Column B</u>

- a) XII 20
- b) VIII 12
- c) IX 8
- d) XX 9
- 5 Define the following-
- a. Roman Numerals
- b. Hindu –Arabic Numerals

Chapter - 2



NUMBER AND NUMERAL

We may express numbers in figures as well as in words. The group of figures representing a number is called the numeral for that number.

FIVE-DIGIT & SIX-DIGIT NUMBERS

In class III, we have studied upto 4-digit numbers. We know that ;

The smallest 4-digit number is 1000.

The largest 4-digit number is 9999.

The number 1 more than 9999 is 10000.

We read 10000 as Ten-thousand.

The smallest number of 5-digits is 10000.

Thus, in the place-value chart, the fifth place from right is called the ten-thousands

(T-Th) Th H T O

Thus, we have larger numbers as given below:

| Numeral | Read as |
|---------|---|
| 10000 | Ten thousand |
| 10001 | Ten thousand one |
| 10002 | Ten thousand two |
| | |
| 10010 | Ten thousand ten |
| | *************************************** |
| 10099 | Ten thousand ninety-nine |
| 10100 | Ten thousand one hundred |
| | |
| 10900 | Ten thousand nine hundred |
| | |
| 10999 | Ten thousand nine hundred ninety-nin- |
| 11000 | Eleven thousand |
| 1001 | Eleven thousand one |
| | |
| 9000 | Ninety-nine thousand |
| | |
| 9999 | Ninety-nine thousand nine hundred nine |

The largest 5-digit number is 99999.

The number 1 more than 99999 is 100000. We read 100000 as one-lakh. The smallest 6-digit number is 100000.

Thus, in the place value chart, the sixth place from the right is the lakhs place. Proceeding as in the above table, we start from 100000 and reach up to 993399. The largest 6-digit number is 999999.

The number 1 more than 999999 is 1000000. We read 1000000 as ten-lakhs. The smallest 7-digit number is 1000000.

The seventh place in a number is called the ten-lakhs place. The greatest 7-digit number is 9999999.

INDIAN NUMBER SYSTEM

The number system that we have learnt above is the Indian number system.

It is also called the Hindu-Arabic system of numeration.

In this system, we have the place value chart as shown below:

| Periods→ | LAKHS | | THOUS | SANDS | | ONES | | |
|----------|----------------------|-----------------|------------------------|-------------------|--------------|------------|-----------|--|
| Places → | Ten-Lakhs 1000000 | Lakhs 100000 | Ten-Thousands 10000 | Thousands 1000 | Hundreds 100 | Tens 10 | Ones 1 | |
| No. | TL | EL. | T-Th | Th | Н | Τ. | .0 | |

The seven places have been grouped into three periods or bunches :

- (a) The first three places make the ones period.
- (b) The next two places make the thousands period.
- (c) The next two places make the lakhs period.

INTERNATIONAL NUMBER SYSTEM

This system is followed by a large number of countries (especially the western countries) in the world.

In this system, we write:

1 lakh = 100 thousands.

10 lakhs = 1 million.

Thus, we have periods of ones, thousands and millions.

COMPOSITE MATHEMATICS - 4



Reading And Writing A Numeral:

While reading a numeral, all the digits in the same period are read together and the name of the period (except the ones) is read along with it.

While writing a numeral, we separate the periods using commas.

Study the following examples

SOLVED EXAMPLES

Example 1. Write each of the following numerals in the Indian system by separating the periods, using commas:

(a) 13645 (b) 39087 (c) 105674 (d) 1370654 (e) 3650009 (f) 267509

Solution: Separating the periods of ones, thousands and lakhs from right, we may write:

| Using Commas | | | | rat | Given Nume | | | | |
|---------------------|---|---|---|-----|------------|---|-----|-----|--|
| Ethio Communication | 0 | Т | Н | Th | T-Th | L | TL. | | |
| 13,645 | 5 | 4 | 6 | 3 | 1 | | | (a) | |
| 39,087 | 7 | 8 | 0 | 9 | 3 | | | (b) | |
| 1,05,674 | 4 | 7 | 6 | 5 | 0 | 1 | | (c) | |
| 13,70,654 | 4 | 5 | 6 | 0 | 7 | 3 | 1 | (d) | |
| 36,50,009 | 9 | 0 | 0 | 0 | 5 | 6 | 3 | (e) | |
| 2 67 500 | 9 | 0 | 5 | 7 | 6 | 2 | | (1) | |

Example 2. Write the number-name for each of the following numerals in the Indian system:

(a) 30207 (b) 480695 (c) 200645

(a) 1636506 (b) 480695 (c) 360018 (d) 1636506 (e) 1400008 (f) 1836054

We first arrange the given numerals in the place value chart. Separating the periods of ones, thousands and lakhs from right, in each numeral, we may

| (Leave | | | Given | Num | eral | | | Number-Name |
|---------|---|----|-------|-----|------|---|---|---|
| | T | LL | T-Th | Th | Н | Т | 0 | Telling Co. |
| (a) | | | 3 | 0 | 2 | 0 | 7 | Thirty thousand two hundred seven |
| (b) | | 4 | 8 | 0 | 6 | 9 | 5 | Four lakh eighty thousand six hundred ninety-five |
| (c) | | 3 | 6 | 0 | 0 | 1 | 8 | Three lakh sixty thousand eighteen |
| (a) | 1 | 6 | 3 | 6 | 5 | 0 | 6 | Sixteen lakh thirty-six thousand five hundred six |
| (0) | 1 | 4 | 0 | 0 | 0 | 0 | 8 | Fourteen lakh eight |
| (1) | 1 | 8 | 3 | 6 | 0 | 5 | 4 | Eighteen lakh thirty-six thousand fifty-four |

Points To Note:

(a) Do not write the periods in plural.

Never write 9347 as Nine thousands three hundreds forty seven Correct form is: Nine thousand three hundred forty seven.

(b) Do not use the word 'and' before tens and ones.

Reading 9347 as Nine thousand three hundred and forty seven, is wrong Here 'and' should not be used.

Example 3. Rewrite the following numbers with proper commas, using international place-value chart:

piace-value chart:

(a) 634782 (b) 1362475 (c) 48237596

Solution: Arranging the given numerals in an international place-value chart and separating the periods, we may write:

| | | | | Give | Using Commas | | | | |
|-----|------|---|------|------|--------------|---|---|---|------------|
| Н | м тм | М | H-Th | T-Th | Th | Н | T | 0 | |
| (a) | | | 6 | 3 | 4 | 7 | 8 | 2 | 634,782 |
| (b) | | 1 | 3 | 6 | 2 | 4 | 7 | 5 | 1,362,475 |
| (c) | 4 | 8 | 2 | 3 | 7 | 5 | 9 | 6 | 48,237,596 |



FACE VALUE AND PLACE VALUE

Face Value of a Digit in a Numeral:

The face-value of a digit in a numeral is the value of the digit itself at whatever place it may be.

Thus, in the numeral 53472:

The face value of 2 is 2;

The face value of 7 is 7;

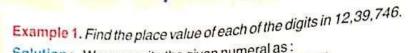
The face value of 4 is 4, and so on.

Place Value or Local Value of a Digit in a Numeral:

Place-value of a digit = (Face-value of the digit) x (Value of the place).

Place-value of 0 is always 0, wherever it may be.

Scanned with CamScanner



Solution: We may write the given numeral as:

| MAGIII | ay w | methe | given | - | 0 | |
|--------|------|----------|-------|---|---|---|
| TI | 1 | T-Th | Th | Н | 1 | U |
| | 7/40 | C. Paris | | | 4 | 6 |
| 1 | 2 | 3 | 9 | 1 | 4 | - |

From place-value chart, clearly we have:

Place value of 6 = 6 ones $= 6 \times 1 = 6$;

Place value of 4 = 4 tens $= 4 \times 10 = 40$;

Place value of 7 = 7 hundreds $= 7 \times 100 = 700$;

Place value of 9 = 9 thousands $= 9 \times 1,000 = 9,000$;

Place value of 3 = 3 ten-thousands $= 3 \times 10,000 = 30,000$;

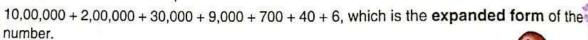
Place value of 2 = 2 lakhs $= 2 \times 1,00,000 = 2,00,000$;

Place value of 1 = 1 ten-lakh = $1 \times 10,00,000 = 10,00,000$.



In the above example, we saw the place value of each digit in the number 12,39,746.

Clearly, 12,39,746 can be expressed as:



The numeral 12,39,746 is the ordinary or short form.

Example 2. Write 9,65,703 in the expanded form.

Solution: Given numeral may be written as:

| L | T-Th | Th | Н | Т | 0 |
|---|------|----|---|---|---|
| 9 | 6 | 5 | 7 | 0 | 3 |

∴ 965703 = 9 lakhs + 6 ten-thousands + 5 thousands + 7 hundreds + 0 tens + 3 ones

 $=9 \times 1,00,000 + 6 \times 10,000 + 5 \times 1,000 + 7 \times 100 + 0 \times 10 + 3 \times 1$

= 9,00,000 + 60,000 + 5,000 + 700 + 3.

SUCCESSOR AND PREDECESSOR

Successor of a Number:

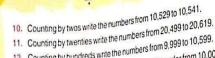
The successor of a number is 1 more than the number.

Thus, the successor of 9999 is 10000: the successor of 85293 is 85294.

Predecessor of a Number:

The predecessor of a number is 1 less than the number.

Thus, the predecessor of 60700 is 60699; the predecessor of 100000 is 99999.



- 12. Counting by hundreds write the numbers from 9,999 to 10,599.
- 13. Counting by fives write the numbers in reverse order from 10,000 to 9,960.
- 14. Discover the pattern and name the next four numbers: (a) 7345, 7353, 7361, ...
 - (b) 10501, 10511, 10521,

 - (c) 23709, 23699, 23689, .
 - (d) 20000, 19998, 19996,
- (e) 100000, 99900, 99800, .

COMPARISON OF NUMBERS

We have already learnt the method of finding the greater of the two given numbers upto 4digit numbers.

We follow the same rules for large numbers.

Rule 1: If two numbers with different number of digits are given, then the number which has more digits is the greater of the two.

Thus, 5983 > 697, since 5983 has 4 digits while 697 has 3 digits.

Rule 2: Suppose we have to compare two numbers with the same number of digits.

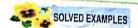
Step 1. First compare the digits at the left most place in both the numbers.

Step 2. If they are equal in value, compare the second digits from the left in both the

Step 3. If the second digits from the left are equal, compare the third digits from the left in both the numbers.

Step 4. Continue until you come across unequal digits at the corresponding places.

Now, the number with greater such digit is the greater of the two.



Example 1. Which is greater: 9875 or 16004?

Solution: Clearly, 9875 consists of 4 digits, while 16004 contains 5 digits.

Since a number with more digits is greater, so 16004 > 9875.

Example 2. Which is greater: 87,951 or 79,865?

Solution: Both are 5-digit numbers.

Compare their left most digits i.e. 8 in 87,951 and 7 in 79,865. And, 8 > 7. canned With CamScanner

Example 3. Compare 6,45,385 and 6,45,403.

Solution: Both the numbers have 5 digits. Both have the same digits at the lakhs, ten-thousands and thousands places.

So, we compare the digits at hundreds place. This digit is 3 in 6,45,385 and 4 in 6,45,403. And, 3 < 4.

:. 6,45,385 < 6,45,403.

ASCENDING-DESCENDING ORDER

Numbers in ascending order means the numbers from smaller to greater. Numbers in descending order means the numbers from greater to smaller.

Example 4. Arrange the following numbers in ascending order:

50,60,713 5,62,302 45,82,916 55,62,310 45,81,996

Let us arrange the given numbers in a place value chart. Solution:

| TL | L | T-Th | Th | Н | T | 0 |
|----|---|------|----|---|----|---|
| 5 | 0 | 6 | 0 | 7 | _1 | 3 |
| - | 5 | 6 | 2 | 3 | 0 | 2 |
| 4 | 5 | 8 | 2 | 9 | 1 | 6 |
| 5 | 5 | 6 | 2 | 3 | 1 | 0 |
| 4 | 5 | 8 | 1 | 9 | 9 | 6 |

5,62,302 is a 6-digit number, while all others are 7-digit numbers.

:. 5,62,302 is the smallest number.

Of the remaining numbers, the first and fourth numbers have 5 as the left most digit, while the third and fifth numbers have 4 as the left most digit.

Since 5 > 4, so the first and fourth numbers are greater than the third and fifth

Now, we compare 45,82,916 and 45,81,996. Both these numbers have the same digits at the ten lakhs, lakhs and ten-thousands places. So, we compare the digits a the thousands place.

This digit is 2 in 45,82,916 and 1 in 45,81,996.

Since 1 < 2, so 45,81,996 < 45,82,916.

Next we compare 50,60,713 and 55,62,310.

Both these numbers have the same digits at the ten-lakhs place

So, we compare their digits at the lakhs place.

This digit is 0 in 50,60,713 and 5 in 55,62,310. And, 0 < 5.

So, 50,60,713 < 55,62,310.

| QA) Multiple Choice Questions- |
|---|
| Place value and face value will be the same in the place. a. Ones b. hundreds c. tens d. thousands |
| 2. The number just before 9990 is a. 9991 b.9909 c.9988 d.9989 |
| 3. The place value of 2 in 2548 is a. 200 b.2020 c.2000 d.2002 |
| 4 is the smallest 4- digit numeral formed by the digit 8,0,6,7. a. 0678 b.7068 c.6078 d.7086 |
| 5. The expanded form of the numeral 3003 is a. 300+30 b. 3000+30 c.3000+3 d. 300+3000 |
| QB) Calculation based questions- |
| 1. Arrange the following numerals in Indian place-value chart and then rewrite them with commas at the right places: a. 200105 b.1560034 |
| 2. Write the following numerals in words in the Indian system: a.53106 b. 6152496 |
| 3. Write in figures as well as in words- a. the smallest number of 5 digits b. the largest number of 5- digits |
| 4. Write the number names of the following in the international system- a.360520 b.5059082 |
| 5. Express the following numbers written in the Indian system in figures, placing at the right places; a. Fifteen thousand six hundred eighty-two b. Ten lakh twenty c. Eight lakh one thousand seven |
| 6. Arrange the following numbers in ascending order- 685475, 288231,485712,369258,321654 |

QC) Word Problems-

- 1. Find the difference between the place value and face value of 6 in 4,61,503
- 2. Find the difference between the place value and face value of 8 in 48,96,500 and 15,80,776
- 3. counting by twos write the numbers from 10,529 to 10,541
- 4. Counting by twenties write the numbers from 20,499 to 20,619
- 5. Counting by hundreds write the numbers from 9,999 to 10,599
- 6. Counting by fives write the numbers in reverse order from 10,000 to 9,900

QD) Higher order thinking Questions-

1.Discover the patterns and name the next four numbers-

2. Write the smallest 3- digit number using the following digits only once:

a. 5, 7 and 1

3. Write the greatest 4- digit number using the following digits only once:

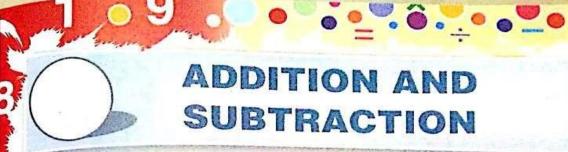
a. 0, 2, 7 and 5

- 4. Write the greatest 3- digit number using the digits 8 and, repeating 4 two times.
- 5. Encircle the largest number among the given numbers-

a.1,00,300; 1,01,000; 1,00,297; 1,00,403; 1,00,960

QE) Define the following-

- 1. Ascending order
- 2. Descending order
- 3. Successor
- 4. Predecessor
- 5. Place Value



ADDITION

In class III, we have learnt the addition of two or more numbers upto 4-digit numbers. We shall extend the same idea of addition to 5-digit and 6-digit numbers.

Addendum And Sum: When some numbers are added, then each of the numbers to be added is known as an addendum and the result obtained after addition is called the sum.

ADDITION WITHOUT CARRYING

Rule: Arrange the addends under each other in the place-value chart and add them column wise from right to left, i.e. first add the ones, then the tens, then the hundreds and so on.

Example 1. Add 41367 and 24512.

Solution: Arranging the addends column wise and adding, we get:

| | | _ | | | |
|---|------|----|---|---|---|
| (| T-Th | Th | Н | Т | 0 |
| | 4 | 1 | 3 | 6 | 7 |
| # | 2 | 4 | 5 | 1 | 2 |
| | 6 | 5 | 8 | 7 | 9 |
| | | | | | |

Explanation: We add column wise, step by step, as shown below:

Step 1: $\underline{Adding ones} \rightarrow 7 \text{ ones} + 2 \text{ ones} = 9 \text{ ones}.$

Step 2: Adding tens → 6 tens + 1 ten = 7 tens.

Step 3: Adding hundreds → 3 hundreds + 5 hundreds = 8 hundreds.

Step 4: Adding thousands → 1 thousand + 4 thousands = 5 thousands.

Step 5: Adding ten-thousands → 4 ten-thousands + 2 ten-thousands

=6 ten-thousands.

So, the sum of the given addends is 65879.

Example 2. Find the sum: 14243+32403+1102+141.

Solution: Arranging the addends under each other in the place value chart and adding column wise, we get:

Scanned with CamScanner

ADDITION WITH CARRYING

Example 1. Add 75364 and 23678.

Solution: Arranging the addends under each other in the place-value chart and adding columnwise, we get:

| | T-Th | Th | н | т | 0 | |
|-------------|------|-----|---|-----|--------|---|
| | | (1) | 1 | (1) | - carr | У |
| | 7 | 5 | 3 | 6 | 4 | |
| The same of | 2 | 3 | 6 | 7 | 8 | |
| | 9 | 9 | 0 | 4 | 2 | |



Explanation: We add columnwise.

Adding ones:

4 ones + 8 ones = 12 ones

= 1 ten + 2 ones.

Write 2 under ones' column.

Carry over 1 to tens' place.

Addingtens:

1 ten (carried over) + 6 tens + 7 tens = 14 tens

= 10 tens + 4 tens

= 1 hundred + 4 tens.

Write 4 under tens' column.

Carry over 1 to hundreds' place.

Adding hundreds:

1 hundred (carried over) + 3 hundreds + 6 hundreds

= 10 hundreds

= 1 thousand + 0 hundred

Write 0 under hundreds' column. Carry over 1 to thousands' place.

Adding thousands:

1 thousand (carried over) + 5 thousands + 3 thousands = 9 thousands

Write 9 under thousands' column.

Adding ten-thousands:

7 ten-thousands + 2 ten-thousands = 9 ten-thousands.

Write 9 under ten-thousands' column.

.. The required sum is 99042.

COMPOSITE MATHEMATICS - 4

Scanned with CamScanner

SUBTRACTION

In class III, we have learnt about subtraction without and with borrowing for smaller numbers consisting of 4 or less digits. We use the same idea of subtraction for larger numbers consisting of 5 or more digits.

Minuend, Subtrahend and Difference:

In a problem on subtraction, we use the following terms:

The larger number from which we subtract the other number, is known as minuend.

The number which is subtracted is called subtrahend.

The result of subtraction is called the difference between the given numbers.

SUBTRACTION WITHOUT BORROWING

Rule: In order to find the difference between two given numbers, arrange the digits of subtrahend under those of minuend in the place value chart.

Now subtract columnwise. That is:

Subtract ones from ones, tens from tens, hundreds from hundreds, thousands from thousands, ten-thousands from ten-thousands and so on.



Example 1. Subtract 42365 from 87596.

Solution: Here minuend is 87596 and subtrahend is 42365.

Arrange the digits of the given numbers in column form in the place-value chart and subtracting columnwise, we get:



∴ 87596 – 42365 = 45231.

Explanation:

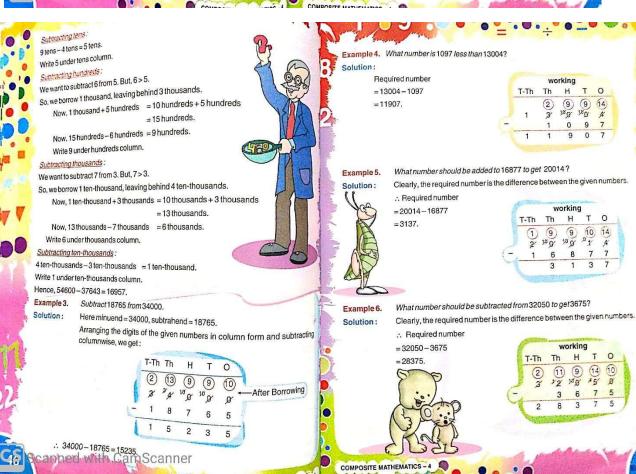
Subtracting ones: 6 ones - 5 ones = 1 one.

Write 1 under ones column.

Subtracting tens: 9 tens - 6 tens = 3 tens.
Write 3 under tens column.

Scanned with CamScanner





8. 51684+0=.....

WORD PROBLEMS ON ADDITION

Example 1.

A bulb manufacturing factory produced 86325 bulbs in January, 69770 bulbs in February and 107605 bulbs in March. How many bulbs did the factory produce altogether in these three months?

Solution:

Total number of bulbs produced in 3 months =

Hence, the total number of bulbs produced in 3 months is 263700.

Example 2.

There are 425693 men, 372817 women and 296084 children in a city. What is the population of that city?

Solution:

Total population of the city 10 9 4 5 9 4

Hence, the total population of the city is 1094594.

anned with CamScanne

OMPOSITE MATHEMATICS - 4

what humber should be subtracted from 22222 to get 9999?

WORD PROBLEMS ON SUBTRACTION

Example 1.

Mr. Rao earns ₹ 20160 per month. His total monthly expenditure is ₹11975. How much does he save every month?

Solution:

Total monthly income =₹ 20160.
Total monthly expenditure =₹ 11975.
Monthly saving
$$\approx$$
₹ (20160 – 11975)
=₹ 8185.

Hence, Mr. Rao saves ₹8185 per month.

Example 2.

The price of a car is ₹ 186978 and that of a van is ₹ 215647. Which costs more and by how much?

Solution:

The price of a car = ₹ 186978. The price of a van = ₹215647. Clearly, 215647 > 186978.

.. The van costs more than the car.

Difference in their prices =₹ (215647 - 186978) =₹28669.

∴ The van costs more than the car by ₹28669.

Example 3.

The sum of two numbers is 90514. If one of the numbers is 48726, find the other number.

Solution:

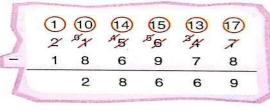
The sum of two numbers ≈ 90514.

One number = 48726.

∴ The other number = (90514 – 48726)

=41788.

Hence, the other number is 41788.



2 100

8

1

(8)(9)(14)A 4 2 6 4

(5)

88

7

(10)

8

5

5

Subtracting hundreds: 5 hundreds - 3 hundreds = 2 hundreds.

Write 2 under hundreds column.

Subtracting thousands: 7 thousands - 2 thousands = 5 thousands.

Write 5 under thousands column.

Subtracting ten-thousands: 8 ten-thousands - 4 ten-thousands

= 4 ten-thousands.

Write 4 under ten-thousands column.

Hence, 87596 - 42365 = 45231.

Example 2. Find the difference between 79654 and 26312.

Solution:
Both the given numbers are 5 digit numbers.

Both the given numbers are 5-digit numbers.

Comparing their digits at ten-thousands place, we find that 7 > 2.

∴ 79654 > 26312

So, the minuend is 79654. The subtrahend is 26312.

Arranging their digits in place-value chart and subtracting columnwise, we get:

| | | | - | _ |
|----|-------|---|---|---|
| T- | Th Th | Н | Т | 0 |
| 7 | 9 | 6 | 5 | 4 |
| 2 | 6 | 3 | 1 | 2 |
| 5 | 3 | 3 | 4 | 2 |





QA) Multiple Choice Questions-

1. What must be added to 3956 to get 6935?

a.3956

b.6935

c.2979

d.3979

2. A man earns Rs.7250.25 and spends Rs.088.75? How much does he save?

a.Rs.1162.50

b.Rs.1161.90

c.Rs.1161.50

d.Rs.1171.50

3. One more than which number is 72500?

a.71499

b.72499

c.72501

d.72500

4. What is the difference between 4753 and 8000?

a.3247

b.3857

c.4247

d.3257

5. In an election, 27895 votes were polled.6521 votes were found invalid. How many votes were valid?

a.21374

b.34416

c.21376

d.6521

QB) Calculation based questions-

1. Arrange the following numbers in columns and find their sum;

a.123574, 63312, 2003

b.236381, 30516, 2102, 1000

- 2. Find the sum
 - a. 12 thousand+6 hundreds+14 tens+16 ones
 - b. 8 ten thousand+4 thousands+a5 hundreds+12 tens

QC) Word problems-

- 1. Rajeev purchases a sofa set and a dining set costing Rs. 36875 and Rs. 87365 respectively. How much money he has to pay in total?
- 2. In a village, there were 52,800 children, 1, 54,000 men and rest females. If the total population of the village is 2, 70,000. Find the number of female populations of the village.
- 3. A music store ordered 4, 98,763 musical DVDs in 2014. They sold 3, 87,651 DVDs out of the total DVDs order. How many DVDs were left unsold?
- 4. There were 48213 bags of rice in a godown. If 19425 bags are taken out. How many bags remain there in the godown?
- 5. In an all Indian examination, 287300 candidates appeared. Out of these, 97435 failed. How many candidates passed?

QD) Higher Order Thinking Questions-

- 1. What number is 2897 less than 16000?
- 2. What number should be added to 37654 to get 100000?
- 3. What number should be subtracted from 22222 to get 9999?
- 4. Estimate the difference of the following
 - a. 62901-31600
 - b. subtract 18888 from 25444
- 5. Replace* by the correct digits;

QE) Define the following-

- 1. Grouping property of zero
- 2. Additive property of zero
- 3. Order property of zero