ગુજરાત શૈક્ષણિક સંશોધન અને તાલીમ પરિષદ, ગાંધીનગરના પત્ર-ક્રમાંક જીસીઈઆરટી/સી ઍન્ડ ઈ/૨૦૧૪/૨૨૨૨, તા. ૩-૨-૨૦૧૪–થી મંજૂર

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MATHEMATICS

Standard 4

(Semester I - II)



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My happiness lies in their well-being and prosperity.

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PREFACE

In keeping with the guidelines laid down under NCF-2005 and RTE-2009, structural pedagogical changes have come about in primary education, curriculum and syllabus design and textbooks across India. This change refers to our understanding of concerned subjects and teaching-learning procedure on the whole. The primary objective of this syllabus is to foster creativity, out-of-box thinking, logical and analytical skills among young children keeping this approach in mind, the Textbook Board of Gujarat takes pleasure in introducing the textbook of **Standard 4 Mathematics** to students, teachers and parents painstakingly prepared by G.C.E.R.T., Gandhinagar.

IGNUS-erg Team Members have provided vital inputs and guided the State Resource Group members in the entire process of framing new syllabus and designing the textbooks. UNICEF and the core-group members of the concerned subjects have been quite helpful at various junctures.

Before prescribing this textbook in the schools across Gujarat, Gujarati edition book had been introduced in selected schools on an experimental basis. Based on the feedback received from the stakeholders, necessary changes have been incorporated by Gujarat Council of Education and Research Training.

Gujarat State Board of School Textbooks convened a meeting of invited subject-experts and experts from GCERT to prepare the final draft of Gujarati edition textbook before prescribing it in the primary schools across Gujarat.

After that Gujarat State Board of School Textbooks has invited experienced teachers to translate it into english and subject expert teachers reviewed this book and then final edition is prepared.

Every effort has been made to maintain quality of the book and to cater to the taste of young students. We hope that young children will like the four-coloured form of this textbook and make the optimum use of this book. Efforts have been made to make this text book errorfree. Still we solicit suggestions from all the stakeholders.

Dr. Bharat Pandit Director Date: 3-3-2015 **Dr. Nitin Pethani** Executive President Gandhinagar

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It shall be the duty of every citizen of India:

- (a) to abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem;
- (b) to cherish and follow the noble ideals which inspired our national struggle for freedom;
- (c) to uphold and protect the sovereignty, unity and integrity of India;
- (d) to defend the country and render national service when called upon to do so;
- (e) to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women;
- (f) to value and preserve the rich heritage or our composite culture;
- (g) to protect and improve the natural environment including forests, lakes, rivers and wild life, and to have compassion for living creatures;
- (h) to develop the scientific temper, humanism and the spirit of inquiry and reform;
- (i) to safeguard public property and to abjure violence;
- (j) to strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavour and achievement.
- (k) to provide opportunities for education by the parent or the guardian, to his child or a ward between the age of 6 and 14 years as the case may be.





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About this Text-Book....

This text-book has been prepared with a view to developing expected skills among the students on the basis of Gujarat Curriculum Frame-work (GCF). Special emphasis has been put on acquaring the knowledge through principles by the students in such a way that, they may not resort to craming. The maximum efforts has been made so that the children learn the concepts of Mathematics, students can think logically. Solve the problems, understand the roll of Mathematics in the beauty of nature and can use Mathematics in day-to-day dealings.

Each chapter begins with the activities based on the experiences of the children. The objective is that the studetns may be inspired to think, may do similar experiments and finally; what they have learnt may be evaluated as per method of ERAC by themselves.

For the preparation of this new text-book the parameters decided are : syllabus according to the age-group of children, continuity and co-ordination of concepts of two standards, simple and short presentations, life-oriented concepts as per guidelines of RTE and utility of local objects. A group of Mathematics teachers directly teching in the primary schools who are selected in SRG have prepared and reviewed this text-book as per the parameters mention here. This final script has been prepared with appropriate correction after getting reviewed by the experts of mathematics and after three years introductory implimentation of Gujarati edition by the Gujarat State Board of School Textbooks.

Each chapter in the text-book is introduce with the titles : 'Let us recall', 'Let us learn Something new', 'Practice' and 'exercise'. The answers to the exercises are given at the end of the chatper. 'Revision' has been given at the end of every three or four chapters so that students may get practice.

The syllabus of this text-book is divided into two semesters. In first semester, 1st chapter contains the knowledge, place-value, ascending-descending order of numbers upto 9999. 2nd chapter includes addition of two or three numbers having four digits. Such that the sum will not exceed 9999. Chapter 3 includes subtraction of numbers without borrowing and with borrowing where the answer will not exceed 9999. Chapter 4 contains multiplication of numbers where product will not exceed 9999. Chapter 5 shows factors of numbers not greater then 100 and multiples of numbers upto 20. Chapter 6 includes the concept of reading the calander, mutual conversion of hours-minutes. Chapter 7 clears the concepts of a line, a line-segment and a ray.

In second semester chapter 8 shows the types of angles, construction and measurment of angles with the help of a protector. Chapter 9 shows the types of triangles on the basis of the angles and the sides. Chapter 10 includes division of two or three digit numbers by one or two digit numbers and practical problems. Chapter 11 explains like, unlike, proper, improper, equivalent, mixed fractions. Chapter 12 includes mutual conversion of simple and decimal fractions. Chapter 13 shows the mutual conversion of rupee-paisa. Chapter 14 shows the conversion of *cm* into meter, meter into *cm*, meter into kilometer and kilometer into meter. Chapter 15 shows the conversion of kilogram into gram and gram into kilogram, also practical problems. Chapter 16 shows mutual conversion of liter-ml. Explanation is given by using pictures, figures, educational games, project work and various activities.

It is hoped that the students, the teachers and the parents will like this text-book prepared for the students of standard IV.

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Std. 4

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Numbers : 1

Let us recall :

1. Write the following numbers in words :

2. Write the following numbers in figures :

- (4) Nine hundred and fifty four :

3. Write missing numbers in the following table :

| No. | Number | Hundreds | Tens | Units |
|-----|--------|----------|-------|-------|
| (1) | 379 | | ••••• | |
| (2) | ••••• | 5 | 6 | 0 |
| (3) | 64 | ••••• | ••••• | 4 |

4. Arrange the numbers in ascending and descending orders :

| No. | Numbers | Ascending Order | Descending Order |
|-----|---------------|---------------------|---|
| (1) | 219, 210, 216 | ·····, ····, ·····, | ,, |
| (2) | 300, 30, 3 | •••••• | ••••••• |
| (3) | 505, 55, 555 | ·····, ·····, ····· | ••••••••••••••••••••••••••••••••••••••• |
| (4) | 960, 909, 903 | ••••••• | ,, |

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Std. 4

1 : Numbers : 1

5. Fill in the blanks :

| No. | Number | Place value of 3 | Place value of 7 | Place value of 8 |
|-----|--------|------------------|------------------|------------------|
| (1) | 387 | | | |
| (2) | 378 | | | |
| (3) | 738 | | | |
| (4) | 873 | | | |

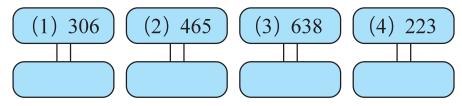
6. Fill in the blanks :

| No. | Immediately preceding number | The number between two given numbers | Immediately succeeding number |
|-----|---------------------------------|---|----------------------------------|
| (1) | ••••• | 467 | |
| (2) | 720 | •••••• | 722 |
| (3) | ••••• | 890 | |
| (4) | | 600 | |

7. Fill in the blanks with appropriate symbol > or < :

- (1) 213 231 (2) 400 49
- (3) 594 495 (4) 390 309

8. Identify the given numbers as even or odd :



Let us learn something new :
 Identification of number upto 10,000 :

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Number 1 is equal to 1 units, 10 units is equal to 1 tens, 10 tens is equal

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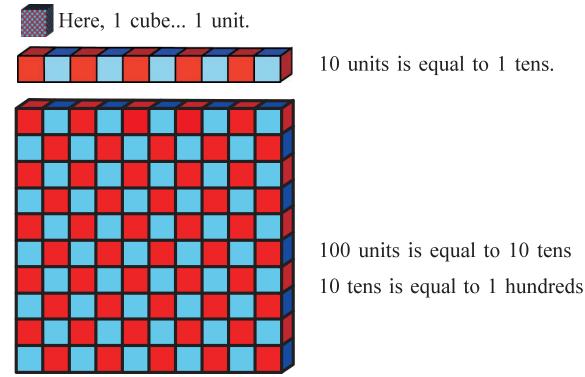
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to 1 hundreds and 10 hundreds is equal to 1 thousands.

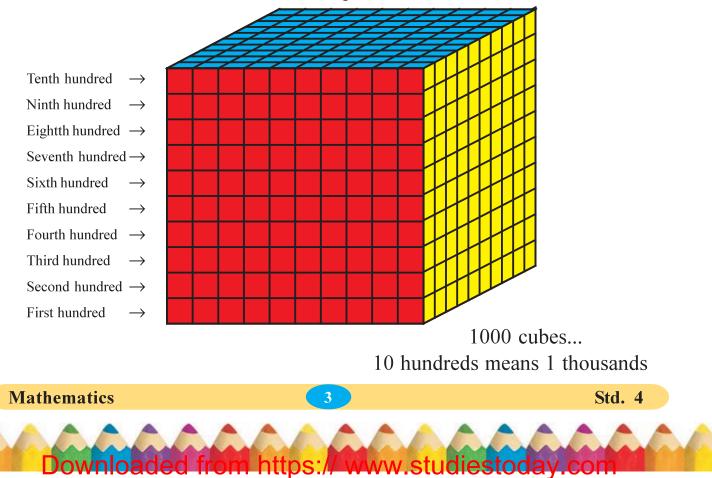




To consolidate your understanding about these numbers look at the figures below :



If you make 10 piles of 100 cubes each you will get the arrangement as shown below. Its topmost pile has 100 cubes in this arrangement; in the same manner there are 100 cubes in all lower piles.



1 : Numbers : 1

All piles taken together make 10 hundreds. 10 hundreds is equal to 1 thousands. Thus, 1000 units = 100 tens = 10 hundreds = 1 thousands

• Reading numbers upto 10,000.

You have already learnt to read the numbers upto nine hundred and ninety nine in std. 3.

- Writing numbers upto 10,000 in figures words In 1000,
 - (1) Replacing the 'ZERO' at the place of unit by 1 to 9 respectively we get numbers from 1001 to 1009.
 - (2) If we put 10 to 99 at the place of tens-units, we get numbers from 1010 to 1099.
 - (3) If we put 100 to 999 at the place of hundreds-tens-units, we get numbers from 1100 to 1999.

Thus by placing numbers in every thousand, we can reach upto the number 9999.

• Numbers : In figures and in words :

| In figures | In words | In figures | In words |
|------------|------------------------------|------------|-------------------------|
| 1001 | One thousand and one | 6000 | Six thousand |
| 1099 | One thousand and ninety nine | 7892 | Seven thousand eight |
| 1200 | One thousand and two hundred | | hundred and ninety two |
| 2000 | Two thousand | 9000 | Nine thousand |
| 5376 | Five thousand three | 9999 | Nine thousand nine |
| | hundred and seventy six | | hundred and ninety nine |
| | | 10,000 | Ten thousand |

Read :

- (1) 4977 : Four thousand nine hundred and seventy seven.
- (2) 3281 : Three thousand two hundred and eighty one.
- (3) 5023 : Five thousand and twenty three.
- (4) 4872 : Four thousand eight hundred and seventy two.
- (5) 1341 : One thousand three hundred and forty one. It is also read as thirteen hundred and forty one.

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1 : Numbers : 1

• Activity 1 : Let us play a game :

Fill in the following boxes with your favourite number of four digits. Not a single box should remain empty and a number cannot be repeated.

| 9999 | | | | | | | |
|------|------|------|--|------|------|--------------|------|
| | | | | | 7896 | | |
| | | 2508 | | | | | |
| | | | | | | | |
| | 8020 | | | | | 4567 | |
| | | | | | | | |
| | | | | | | | |
| | | | | 3672 | | | 4 |
| ~ | | | | | | | |
| | | | | | | \leftarrow | 1100 |

This game will be played by four players. Take a die to play this game and proceed as many boxes as the number obtained on die on throwing. Read the number in the box at which you have reached. Write this number in figure and in words in your notebook.

Like this, start the game; throw a die; write numbers in your notebook. So what are you waiting for ? Start !! Enjoy !!



1 : Numbers : 1

• Range of Numbers upto 9999

Activity 2 : Write the numbers you like :

| Thousands | Hundreds | Tens | Units | Number in figure | Number in words |
|-----------|----------|------|-------|---------------------|---|
| 5 | 3 | 2 | 1 | 5321 | Five thousand three hundred and twenty one |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Now answer the following questions using above table :

- (1) Which is the largest number ?
- (2) Which digit is at the place of thousand in the largest number ?
- (3) Expand any three numbers in thousand, hundred, ten and unit as shown in the following example :

Example : 5321 means 5 thousands 3 hundreds 2 tens 1 units

- (4) means thousands hundreds tens units.
- (5) means thousands hundreds tens units.
- (6) means thousands hundreds tens units.

Let us understand :

- 2637 means 26 groups of hundreds, 3 groups of tens and 7 units or 2 groups of thousands, 6 groups of hundreds, 3 groups of tens and 7 units.
- 3004 means 30 groups of hundreds, 0 group of tens and 4 units
- 5168 means 51 groups of hundreds, 6 groups of tens and 8 units

6

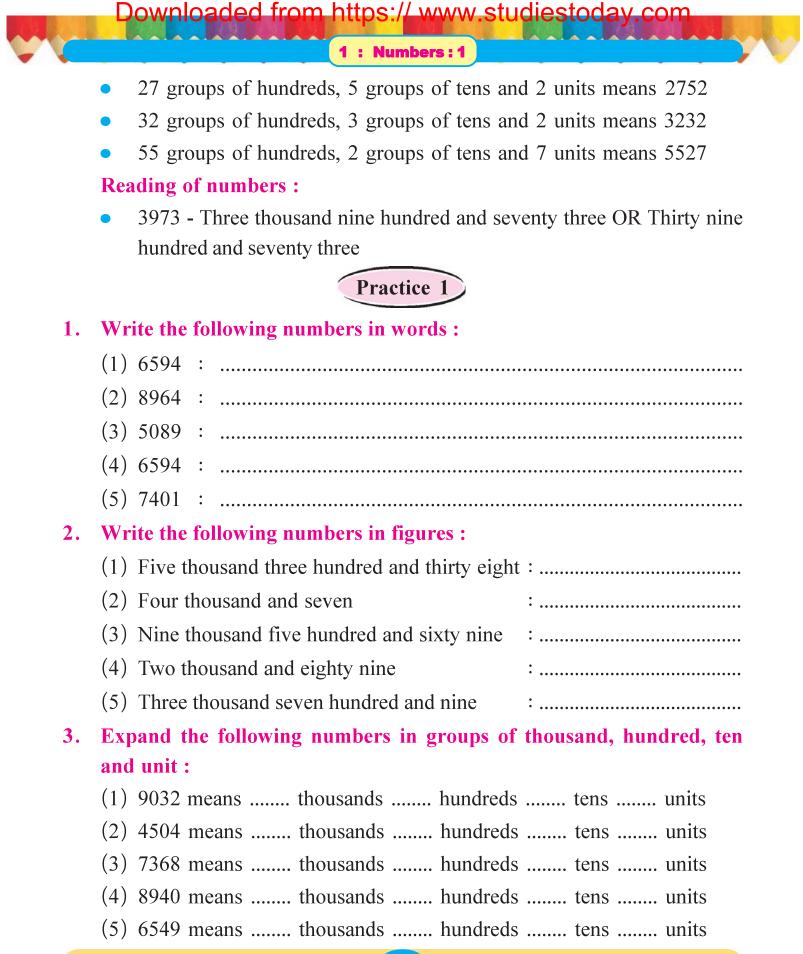
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1 : Numbers : 1

4. Express the following numbers by expanding in group of hundreds, tens, units or express the expansion as a number :

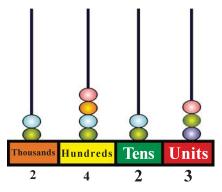
| Sr.No. | Number | Groups of hundreds | Groups of tens | Units |
|--------|--------|---------------------------|----------------|-------|
| Ex. | 3467 | 34 | 6 | 7 |
| (1) | 6738 | | | ••••• |
| (2) | ••••• | 95 | 0 | 2 |
| (3) | 2047 | | | ••••• |
| (4) | ••••• | 67 | 3 | 4 |
| (5) | 4567 | | | |

5. Express the following numbers in group of hundreds and in group of tens :

| Sr. | Number | Groups of | Groups |
|-----|--------|-----------|------------|
| No. | | hundreds | of tens |
| Ex. | 1000 | 10 groups | 100 groups |
| Ex. | 2010 | _ | 201 groups |
| (1) | 3000 | | |
| (2) | 3060 | _ | |

| Sr. No. | Number | Groups of hundreds | Groups of tens |
|------------|--------|-----------------------|-------------------|
| (3) | 4100 | | |
| (4) | 8000 | | ••••• |
| (5) | 7350 | - | ••••• |
| (6) | 5900 | | |

□ Place value :



2 thousands 4 hundreds 2 tens 3 units means 2423

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| Place | Number of Beads | Place-value |
|-----------|-----------------|-------------|
| Thousands | 2 | 2000 |
| Hundreds | 4 | 400 |
| Tens | 2 | 20 |
| Units | 3 | 3 |
| | Number | 2423 |

1 : Numbers : 1

Thus, in 2423,

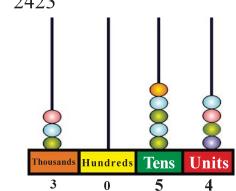
Place-value of 2 is 2000.

Place-value of 4 is 400.

Place-value of 2 is 20.

Place-value of 3 is 3.

Number 2423



3 thousands 0 hundreds 5 tens 4 units means 3054

| Place | Number of Beads | Place-value |
|-----------|-----------------|-------------|
| Thousands | 3 | |
| Hundreds | 0 | 0 |
| Tens | | 50 |
| Units | 4 | 4 |
| | Number | 3054 |

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Mathematics

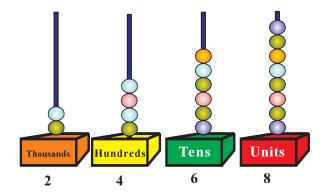
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1 : Numbers : 1

Thus, in 3054, Place-value of 3 is 3000 Place-value of 0 is 0 Place-value of 5 is 50 Place-value of 4 is 4 Number : 3054

If abacus are different having exactly one rod on each and if place value is written on it, let us see how to find out that number.



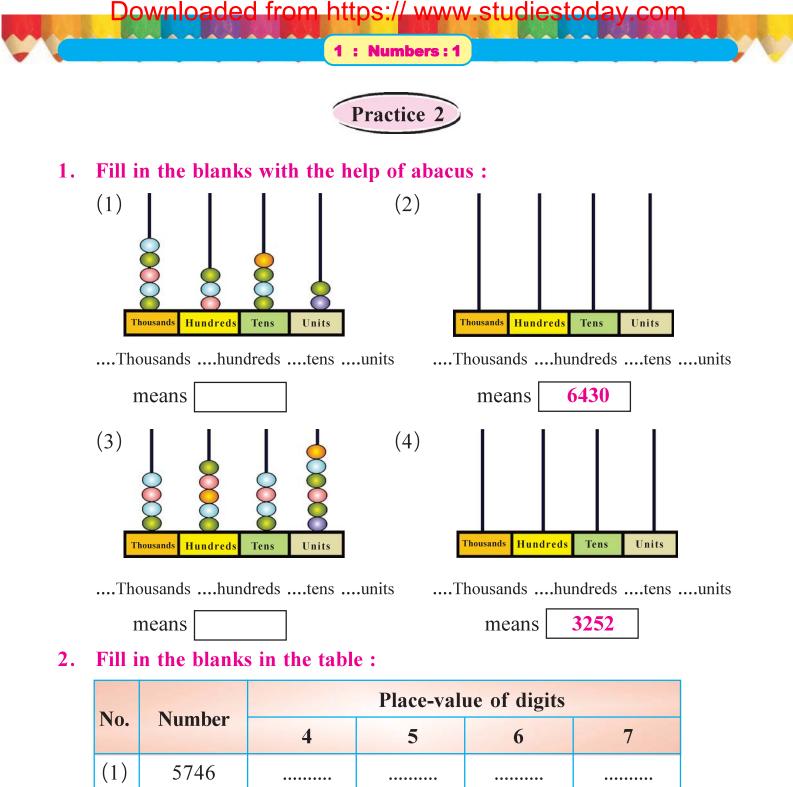
2 thousands 4 hundreds 6 tens 8 units means 2468.

In 2468, place-value of 2 is 2000

- place-value of 4 is 400
- place-value of 6 is 60
- place-value of 8 is 8

Number : 2468

Mathematics 10 Std. 4



| (5) | 5674 | ••••• | ••••• | ••••• | ••••• |
|-----|-------|---------------------|-------|-------|-------|
| (4) | ••••• | 40 | 5 | 6000 | 700 |
| (3) | ••••• | 400 | 5000 | 60 | 7 |
| (2) | 6457 | ••••• | | | ••••• |
| (1) | 5746 | • • • • • • • • • • | ••••• | ••••• | ••••• |

Mathematics

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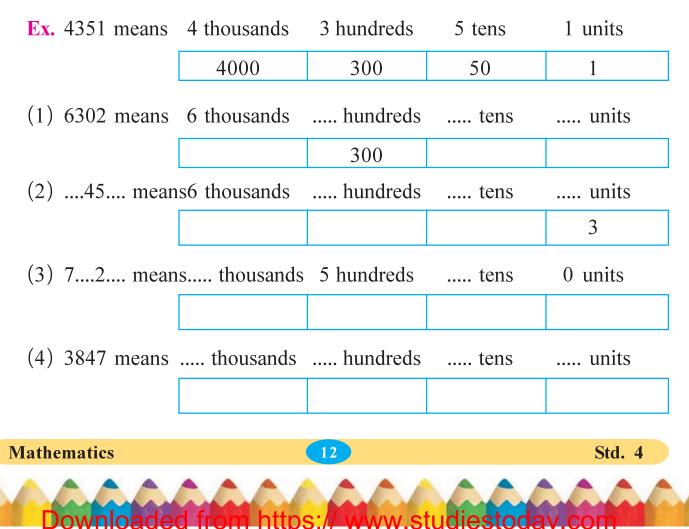
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1 : Numbers : 1

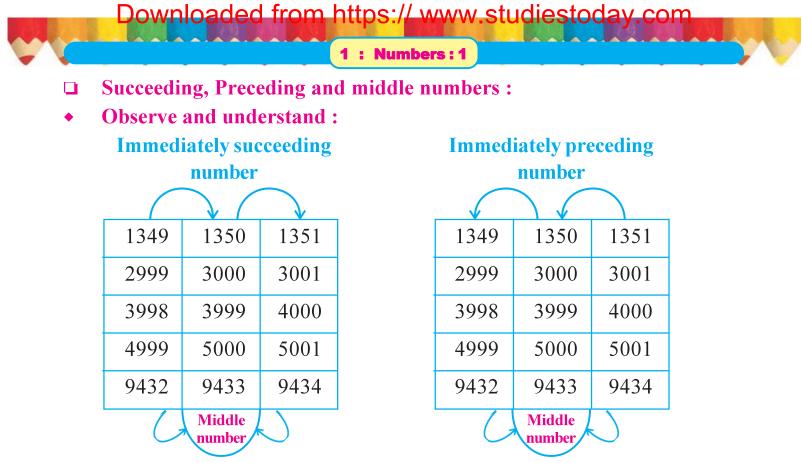
Complete the table by marking the digit and place-value of the digit as 3. shown in example :

| No. | Figure | The | ousands | Hu | indreds | Т | ens | 1 | Units |
|-----|--------|-------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|-----------------------------|
| | | Digit | Place- value of digit |
| Ex. | 4501 | 4 | 4000 | 5 | 500 | 0 | 0 | 1 | 1 |
| (1) | 9720 | •••• | ••••• | ••••• | 700 | 2 | ••••• | 0 | ••••• |
| (2) | 8074 | 8 | ••••• | ••••• | ••••• | ••••• | 70 | 4 | ••••• |
| (3) | ••••• | 6 | ••••• | •••• | 400 | •••• | 10 | 6 | •••• |
| (4) | 6533 | •••• | ••••• | •••• | ••••• | •••• | ••••• | ••••• | ••••• |

Expand the following numbers as shown in the example and write 4. place-value of each group below it :



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By adding 1 to the given number we get the number immediately succeeding.

By subtracting 1 from the given number (other than 1) we get the number immediately preceding.

Understanding of smaller, greater, equal numbers upto 9999 :

| (1) 46 210 | (2) 345 and 672 |
|-------------------------------------|---|
| Two digits Three digits | 3 < 6 (Comparing digits at hundreds place.) |
| Therefore $46 < 210$ | Therefore $345 < 672$ |
| (3) 3597 and 3567 | (4) 1497 and 1497 |
| 9 > 6 | All digits are same |
| (Comparing digits at tens, as digit | Therefore $1497 = 1497$ |
| at thousands and hundreds are sar | me) |

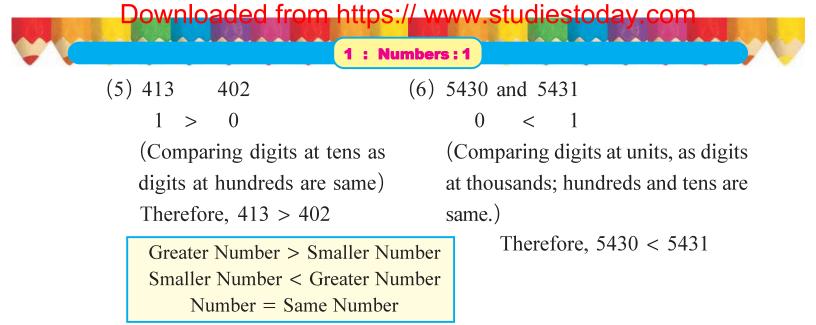
Therefore 3597 > 3567

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Note : To compare numbers, first of all, check numbers from thousands place to units place successively.

Practice 3

1. Fill in the blanks :

- (1) The number immediately preceding 4444 is
- (2) The number immediately succeeding 6809 is
- (4) The number immediately preceding the smallest number of three digits is
- (5) is the middle number for 7563 and 7565.
- (6) 3000 is the middle number for and
- 2. Write 7 pairs of four digit numbers and show them with appropriate symbol =, < or > between them :

ntips:/

| <u> </u> | | <u>aaaaa</u> |
|-------------------|-----|--------------|
| Mathematics | 14 | Std. 4 |
| (5) | (6) | (7) |
| (2) | (3) | (4) |
| Ex. : 2040 > 1498 | (1) | |

1 : Numbers : 1

Ascending-descending order of numbers :

We have learnt how to arrange numbers upto 999 in ascendingdescending order. Similarly numbers upto 9999 can also be arranged in ascending-descending order.

From given numbers we write the highest number. Then from remaining numbers we write the highest number at second order. Proceeding like this we get descending order of numbers.

Suppose we want to arrange numbers 3234, 4243, 4324, 5432 in descending order.

- (1) By comparing the digits at the thousands place of numbers 3234, 4243, 4324, 5432, we can see that the largest number is 5432.
- (2) From remaining three numbers 3234, 4243, 4324 the first digits of 4243 and 4324 are same. So, we compare their second digits; we get largest numbers 4324.
- (3) From remaining two numbers 3234, 4243; we can see that 4243 is larger by comparing first digits. Therefore, 5432, 4324, 4243, 3234 are in descending order.

If we reverse the order in ascending order of numbers, we get descending order of the numbers and if we reverse the descending order of numbers, we get the ascending order of the numbers.

Thus, to decide the ascending order or the descending order, one should compare the digits at thousands and then compare the digits at hundreds, tens and units respectively to decide smaller-greater number.

Example 1 : Arrange the given numbers in ascending order : 4321, 8102, 1898Solution : 4321, 8102, 1898

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ 4 & 8 & 1 \end{array}$$

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8 1 (Place of thousands)

All the three digits at thousands are different and ascending order of them is 1, 4 and 8. Therefore, ascending order of given numbers is 1898, 4321, 8102.

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1 : Numbers : 1

Example 2 : Arrange the given numbers in descending order :

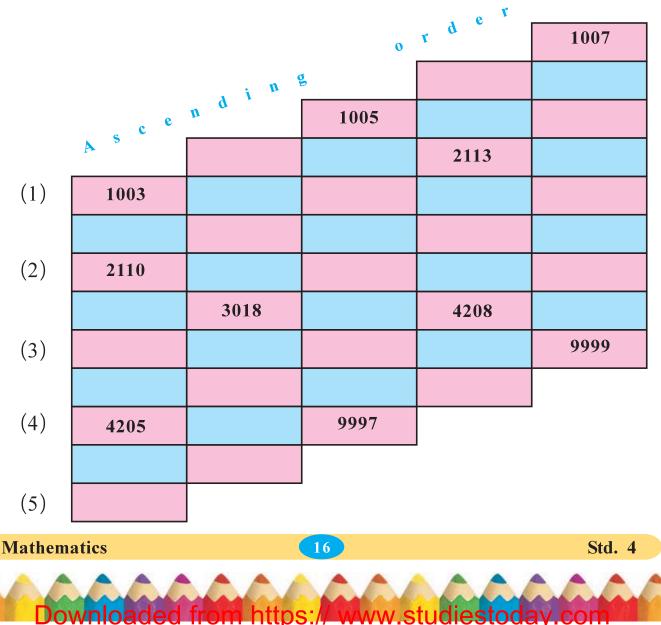
7198, 2364, 5078, 1590 Solution: 7198, 2364, 5078, 1590 $\downarrow \qquad \downarrow \qquad \downarrow \qquad \downarrow \qquad \downarrow$ 7 2 5 1 (F

2 5 1 (Place of thousands)

In the above numbers, the digits at thousands place are different and in descending order they are 7, 5, 2, 1. Therefore, descending order of given numbers is 7198, 5078, 2364, 1590.

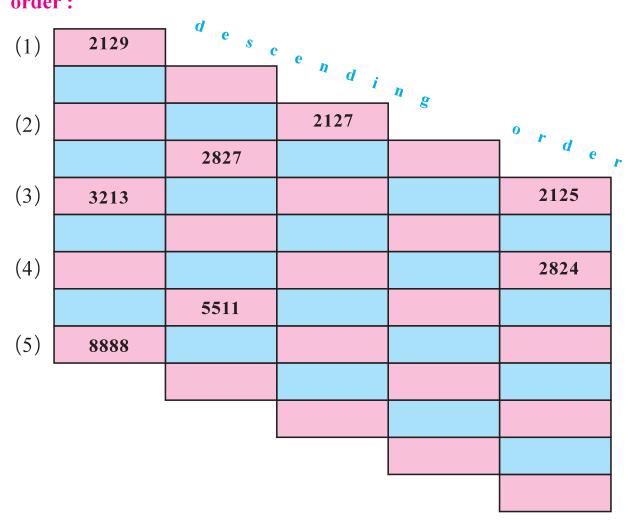
Practice 4

1. Fill in the blanks with proper numbers by understanding ascending order :



1 : Numbers : 1

2. Fill in the blanks with proper numbers by understanding descending order :



3. Fill in the blanks with proper understanding of ascending-descending order :

| | Ascending order | Descending order |
|-----|------------------|------------------|
| Ex. | 1001, 1002, 1003 | 1003, 1002, 1001 |
| (1) | •••••• | 2112, 2111, 2110 |
| (2) | 3204, 3205, 3206 | ,, |
| (3) | ,, | 6412, 6411, 6410 |
| (4) | 5588, 5589, 5590 | ,, |

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1 : Numbers : 1

Let us understand :

| Type of number | How many numbers | Smallest number | Greatest number |
|-----------------|---------------------|--------------------|--------------------|
| 1-digit numbers | 9 | 1 | 9 |
| 2-digit numbers | 90 | 10 | 99 |
| 3-digit numbers | 900 | 100 | 999 |
| 4-digit numbers | 9000 | 1000 | 9999 |

Exercise

1. Write the following numbers in figures :

- (1) Two thousand and thirty seven
- (2) Four thousand three hundred and twenty six
- (3) Seven thousand and nine
- (4) Eight thousand two hundred and fifty four

2. Write the following numbers in words :

- (1) 3941 (2) 4607
- (3) 5370 (4) 8093

3. Fill in the blanks :

| | Number | Place-value of 3 | Place-value of 7 | Place-value of 4 |
|-----|--------|------------------|------------------|------------------|
| (1) | 3407 | | | |
| (2) | 7324 | | | |
| (3) | 6743 | | | |

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1 : Numbers : 1

4. Expand as required and write the number from the given expansion :

| Number | Expansion according to place-value | | | | | | |
|--------|------------------------------------|------|------|-------|--|--|--|
| | Thousands Hundreds Tens Units | | | | | | |
| 1876 | •••• | •••• | •••• | •••• | | | |
| ••••• | 2 | 9 | 0 | 3 | | | |
| 8679 | ••••• | •••• | •••• | ••••• | | | |

| Number | Expansion according to place-value | | | | | |
|--------|------------------------------------|----------|------|-------|--|--|
| | Thousands | Hundreds | Tens | Units | | |
| 4368 | •••• | •••• | •••• | •••• | | |
| ••••• | 8 | 5 | 2 | 6 | | |
| ••••• | 9 | 6 | 7 | 8 | | |

5. Fill in the following blanks :

- (1) The number immediately preceding 1781 is
- (2) The number immediately succeeding 3999 is
- (3) 5999 is the number immediately preceding
- (4) 7610 is the number immediately succeeding
- (5) 8000 is the number between and
- 6. Fill in the following blanks using appropriate symbol =, < or > :
 - (1) 2426 2388 (2) 1475 1478
 - (3) 666 4000 (4) 8915 8915
- 7. Arrange the following numbers in ascending order :
 - (1) 3048, 8043, 4083 (2) 6026, 6062, 6620, 6260

8. Arrange the following numbers in descending order :

(1) 4289, 2894, 9824 (2) 2835, 2833, 2837, 2839

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1 : Numbers : 1



Practice 1

- 1. (1) Six thousand five hundred and ninety four
 - (2) Eight thousand nine hundred and sixty four
 - (3) Five thousand and eighty nine
 - (4) Six thousand five hundred and ninety four
 - (5) Seven thousand four hundred and one
- **2.** (1) 5338 (2) 4007 (3) 9569 (4) 2089 (5) 3709
- **3.** (1) 9, 0, 3, 2 (2) 4, 5, 0, 4 (3) 7, 3, 6, 8 (4) 8, 9, 4, 0 (5) 6, 5, 4, 9
- **4.** (1) 67, 3, 8 (2) 9502 (3) 20, 4, 7 (4) 6734 (5) 45, 6, 7
- **5.** (1) 30, 300 (2) 306 (3) 41, 410 (4) 80, 800

(5) 735 (6) 59, 590

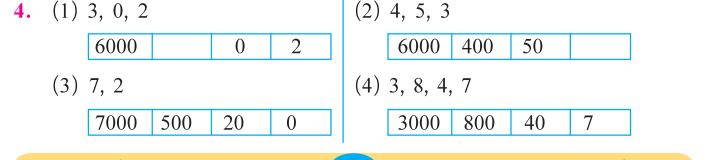
Practice 2



- (2) 6 thousands 4 hundreds 3 tens 0 units
- (3) 4 thousands 5 hundreds 4 tens 6 units means 4546
- (4) 3 thousands 2 hundreds 5 tens 2 units
- **2.** (1) 40, 5000, 6, 700 (2) 400, 50, 6000, 7
 - (3) 5467 (4) 6745 (5) 4, 5000, 600, 70

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- **3.** (1) 9, 9000, 7, 20, 0 (2) 8000, 0, 0, 7, 4
 - (3) 6416, 6000, 4, 1, 6 (4) 6, 6000, 5, 500, 3, 30, 3, 3



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1 : Numbers : 1

Practice 3

 1. (1) 4443
 (2) 6810
 (3) 998
 (4) 99

 (5) 7564
 (6) 2999, 3001
 (7) 10,000

Practice 4

- **3.** (1) 2110, 2111, 2112 (2) 3206, 3205, 3204
 - $(3) \ 6410, \ 6411, \ 6412 \qquad (4) \ 5590, \ 5589, \ 5588$

Exercise

- **1.** (1) 2037 (2) 4326 (3) 7009 (4) 8254
- 2. (1) Three thousand nine hundred and forty one
 - (2) Four thousand six hundred and seven
 - (3) Five thousand three hundred and seventy
 - (4) Eight thousand and ninety three
- **3.** (1) 3000, 7, 400 (2) 300, 7000, 4 (3) 3, 700, 40
- **5.** (1) 1780 (2) 4000 (3) 6000 (4) 7609
 - (5) 7999, 8001
- **6.** (1) > (2) < (3) < (4) =
- 7. (1) 3048, 4083, 8043 (2) 6026, 6062, 6260, 6620
- **8.** (1) 9824, 4289, 2894 (2) 2839, 2837, 2835, 2833

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Addition

Let us recall :

The following are the pictures of different objects with their prices. 1. Answer the questions accordingly :



- (1) What is the total price of the toy car and the camera ?.....
- (2) What is the total price of the steel box and the table ?.....
- (3) What is the total price of the iron and the shoes ?.....
- (4) What is the total price of the chair and the steel box ?.....
- (5) What is the total price of the table and the bat ?

Fill in the following blanks orally : 2.

 $(1) \ 300 + 100 = \dots$ (2) $500 + 300 + 100 = \dots$ $(3) 200 + 500 = \dots$ $(4) \quad 200 + 300 + 400 = \dots$ $(5) \ 300 + 200 = \dots$ $(6) \quad 400 + 100 + 200 = \dots$ **Mathematics** 22

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2 : Addition

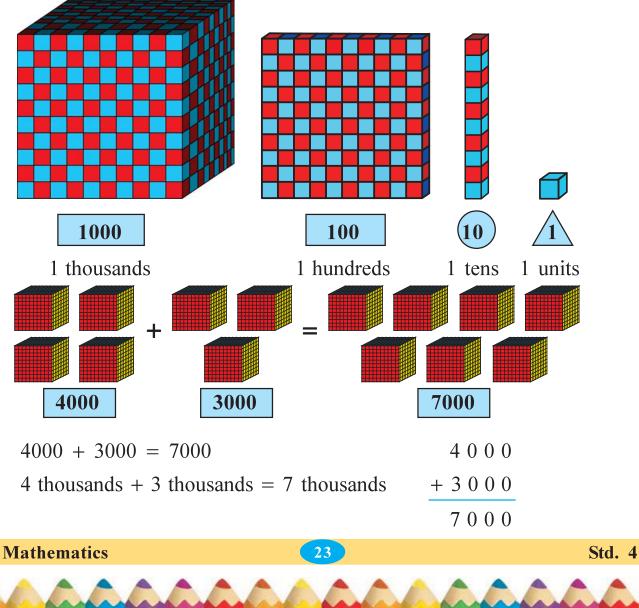
3. Add the following :

| (1) 4 2 6 + 1 3 3 | $\begin{array}{r} (2) & 2 & 3 & 4 \\ + & 1 & 5 & 2 \end{array}$ | $\begin{array}{r} (3) 3 \ 2 \ 6 \\ + \ 3 \ 5 \ 6 \end{array}$ | $\begin{array}{r} (4) & 3 7 5 \\ + 5 9 6 \end{array}$ |
|---|--|--|---|
| $\begin{array}{cccc} (5) & 3 & 2 \\ + 5 & 4 & 3 \\ + 1 & 2 & 4 \end{array}$ | $\begin{array}{c} (6) & 3 5 6 \\ + 1 1 2 \\ + 3 2 1 \end{array}$ | (7) 2 3 5 + 3 1 6 + 3 2 7 | $\begin{array}{cccc} (8) & 2 \ 1 \ 6 \\ & + \ 9 \ 8 \\ & + \ 3 \ 4 \end{array}$ |

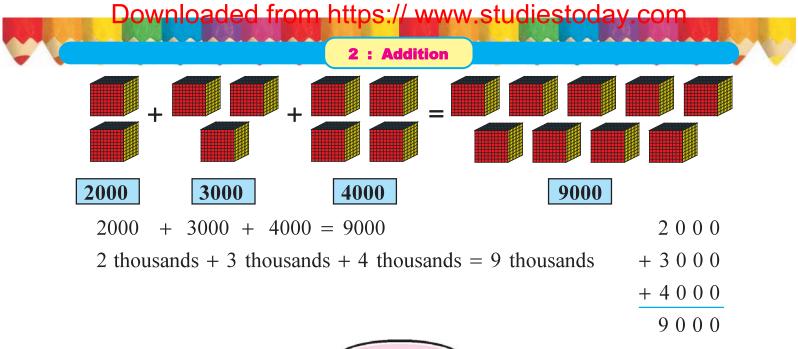
Let us learn something new :

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Oral addition :



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Practice 1

1. Calculate orally and fill in the following blanks :

- $(1) \ 2000 + 1000 = \dots$
- $(3) \ 3000 + 2000 = \dots$
- $(5) 7000 + 2000 = \dots$
- $(7) \ 3000 + 5000 = \dots$
- $(2) 4000 + 2000 + 1000 = \dots$
- $(4) \ 3000 + 4000 + 2000 = \dots$
- $(6) \ 2000 + 2000 + 3000 = \dots$
- $(8) 1000 + 3000 + 1000 = \dots$
- **Look and understand :**
- Addition of two or three numbers of four digits without carry forward :

Example 1 : 2341 + 4032

1000 100 10 1

| | 1000 | 100 | U | | | | |
|---|------|-----|---|---|-----------------------------------|----------------|--|
| | 2 | 3 | 4 | 1 | 1000 1000 | 100 100 100 | |
| + | 4 | 0 | 3 | 2 | 1000 1000 1000 1000 | | |
| | 6 | 3 | 7 | 3 | 100010001000100010001000 | 100 100 100 | |

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2 : Addition

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 2 | 3 | 4 | 1 |
| + | 4 | 0 | 3 | 2 |
| | 6 | 3 | 7 | 3 |

Example 2 : 2312 + 2150 + 1523

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 2 | 3 | 1 | 2 |
| + | 2 | 1 | 5 | 0 |
| + | 1 | 5 | 2 | 3 |
| | 5 | 9 | 8 | 5 |

Example 3 : 3251 + 2425 + 213

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 3 | 2 | 5 | 1 |
| ╀ | 2 | 4 | 2 | 5 |
| ╀ | | 2 | 1 | 3 |
| | 5 | 8 | 8 | 9 |

Example 4 : 7521 + 423 + 15

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 7 | 5 | 2 | 1 |
| + | | 4 | 2 | 3 |
| + | | | 1 | 5 |
| | 7 | 9 | 5 | 9 |

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Which can be written as follows :

$$\begin{array}{r}
 2 3 4 1 \\
 + 4 0 3 2 \\
 \hline
 6 3 7 3
\end{array}$$

Which can be written as follows :

| | 2 | 3 | 1 | 2 |
|---|---|---|---|---|
| + | 2 | 1 | 5 | 0 |
| + | 1 | 5 | 2 | 3 |
| | 5 | 9 | 8 | 5 |

Which can be written as follows :

| | 3 | 2 | 5 | 1 |
|---|---|---|---|---|
| + | 2 | 4 | 2 | 5 |
| + | | 2 | 1 | 3 |
| | 5 | 8 | 8 | 9 |

Which can be written as follows :

| , | 7 | 5 | 2 | 1 |
|---|---|---|---|---|
| + | | 4 | 2 | 3 |
| + | | | 1 | 5 |
| , | 7 | 9 | 5 | 9 |

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2 : Addition

| | Practice 2 |
|---------------------|------------|
| Add the following : | |

| (1) 2532 + 5321 | (2) $3581 + 4105$ | $\begin{array}{rrrr} (3) & 3264 \\ & + & 312 \\ & + & 1413 \end{array}$ | $(4) 4030 \\ + 47 \\ + 2211$ |
|--------------------|---|---|---------------------------------|
| (5) 3407 + 6452 | $\begin{array}{rrrr} (6) & 3120 \\ + & 432 \\ + & 2236 \end{array}$ | (7) $3177 + 312$ | (8) 13 + 173 + 4211 |

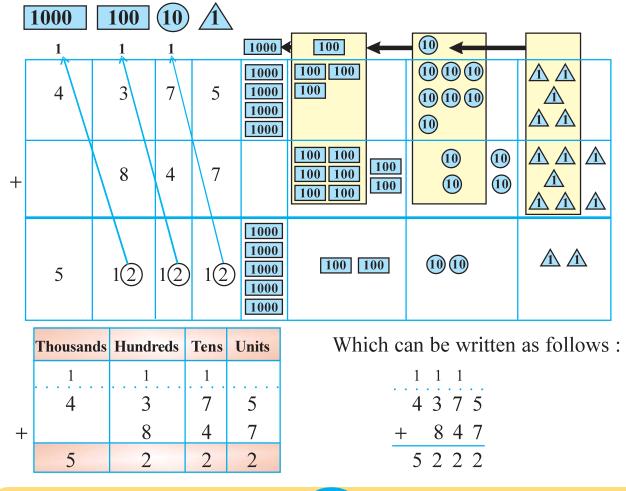
2. Add the following :

1.

(1) 7309 + 2200(2) 1206 + 1410 + 3021(3) 6414 + 225(4) 4400 + 235 + 1201(5) 4301 + 438(6) 2234 + 1200 + 165(7) 327 + 2322(8) 3020 + 2621

□ Addition of two numbers of four digits with carry forward :

Example 5 : 4375 + 847



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2 : Addition

Example 6 : 4375 + 1858

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 1 | 1 | 1 | |
| | 4 | 3 | 7 | 5 |
| + | 1 | 8 | 5 | 8 |
| | 6 | 2 | 3 | 3 |

Example 7 : 5427 + 395

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | | 1 | 1 | |
| | 5 | 4 | 2 | 7 |
| + | | 3 | 9 | 5 |
| | 5 | 8 | 2 | 2 |

Example 8 : 5375 + 785

| | 1 | 1 | 1 | | |
|---|---|---|---|---|--|
| | 5 | 3 | 7 | 5 | |
| | | | | | |
| + | | 7 | 8 | 5 | |

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Which can be written as follows :

$$\begin{array}{r}
1 & 1 & 1 \\
4 & 3 & 7 & 5 \\
+ & 1 & 8 & 5 & 8 \\
\hline
6 & 2 & 3 & 3
\end{array}$$

Which can be written as follows :

$$\begin{array}{r}
1 & 1 \\
5 & 4 & 2 & 7 \\
+ & 3 & 9 & 5 \\
\hline
5 & 8 & 2 & 2
\end{array}$$

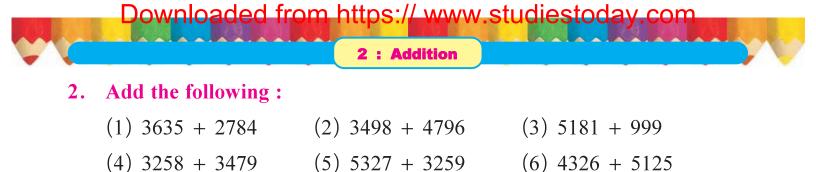
Example 9 : 1368 + 189

$$\begin{array}{r}
1 & 1 \\
1 & 3 & 6 & 8 \\
+ & 1 & 8 & 9 \\
\hline
1 & 5 & 5 & 7
\end{array}$$

| (1) 3515 | (2) 6383 | (3) 3798 | (4) 7849 |
|--------------------|-------------------|--------------------------|-------------------|
| + 5346 | + 3383 | + 275 | + 99 |
| (5) 1327 + 3589 | (6) $4327 + 3258$ | (7) 5256 <u>+ 199</u> | (8) 7326 + 285 |
| Mathematics | | 27 | Std. 4 |

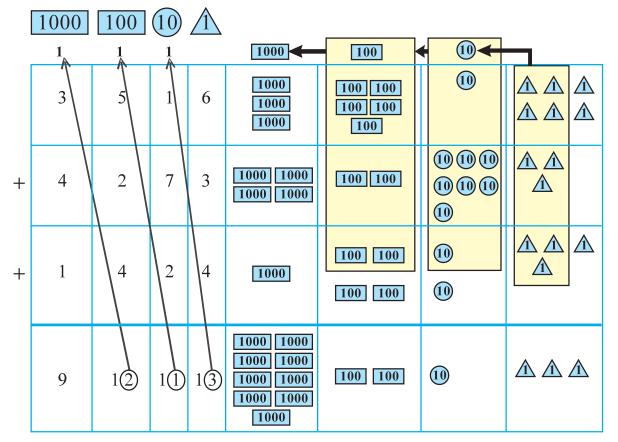
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Practice 3



- (7) 4321 + 235
- □ Addition of three numbers of four digits with carry forward :

Example 10 : 3516 + 4273 + 1424



| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 1 | 1 | 1 | |
| | 3 | 5 | 1 | 6 |
| ╀ | 4 | 2 | 7 | 3 |
| ╀ | 1 | 4 | 2 | 4 |
| | 9 | 2 | 1 | 3 |

Which can also be written as follows :

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2 : Addition

Example 11 : 4795 + 3887 + 719

| | Thousands | Hundreds | Tens | Units |
|---|------------------|----------|------|-------|
| | 2 | 2 | 2 | |
| | 4 | 7 | 9 | 5 |
| + | 3 | 8 | 8 | 7 |
| | | 7 | 1 | 9 |
| | 9 | 4 | 0 | 1 |

Example 12 : 5325 + 3258 + 235

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | | 1 | 1 | |
| | 5 | 3 | 2 | 5 |
| ╀ | 3 | 2 | 5 | 8 |
| | | 2 | 3 | 5 |
| | 8 | 8 | 1 | 8 |

Which can be written as follows :

| | 2 | 2 | 2 | |
|-----|---|---|---|---|
| ••• | 4 | 7 | 9 | 5 |
| + | 3 | 8 | 8 | 7 |
| + | | 7 | 1 | 9 |
| | 9 | 4 | 0 | 1 |

Which can be written as follows :

| | | 1 | 1 | |
|-----|---|---|---|---|
| • • | 5 | 3 | 2 | 5 |
| + | 3 | 2 | 5 | 8 |
| + | | 2 | 3 | 5 |
| | 8 | 8 | 1 | 8 |

Example 13: 4625 + 2876 + 389 **Example 14**: 5729 + 3258 + 457

| $ \begin{array}{r} 1 & 1 & 2 \\ 4 & 6 & 2 \\ + & 2 & 8 & 7 \\ + & 3 & 8 \\ \hline 7 & 8 & 9 \\ \end{array} $ | 2 5 7 6 8 9 | $ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ | |
|--|-----------------------------|---|--|
| Add the follow | Pr | actice 4 | |
| $\begin{array}{rrrr} (1) & 1080 \\ + & 2909 \\ + & 4456 \end{array}$ | (2) 768 + 1345 + 2789 | $(3) 1248 \\ + 6645 \\ + 64$ | $\begin{array}{rrr} (4) & 597 \\ + 4685 \\ + 18 \end{array}$ |
| Mathematics | | 29 | Std. 4 |
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|--|------------|-----------------------------------|--|--|--|--|
| 2 : Addition | | | | | | |
| (5) 3219 | (6) 4251 | (7) 3257 | | | | |
| + 2325 | + 2429 | + 325 | | | | |
| + 486 | + 18 | + 18 | | | | |
| 2. Add the follow | ving: | | | | | |
| (1) 1305 + 25 | 523 + 1330 | (2) 5256 + 3124 + 1219 | | | | |
| (3) 2824 + 32 | 250 + 1975 | (4) 5276 + 3251 + 1289 | | | | |
| (5) 2426 + 35 | 28 + 251 | $(6) \ 4370 \ + \ 2352 \ + \ 326$ | | | | |
| (7) 3252 + 25 | 6 + 28 | (8) 4598 + 3586 + 19 | | | | |

Explanation of practical examples :

Example 15 : 1356 boys and 2385 girls visited a science fair at district level; how many children visited the science fair ?

(Explanation : If we want to find out total number of children, we have to add the number of boys and the number of girls.)

Thus, total 3741 children visited science fair.

Example 16 : In a library there are 3247 story books; 4378 picture story books and 198 kids story books. How many total number of books are there in the library ?

(Explanation : To find out total number of books in library we have to add number of story books, number of picture story books and number of kids story books.)

| 22 | | | |
|----------------|---------------------------|--------|--|
| 3247 | story books | | |
| + 4378 | picture story books | | |
| + 198 | kids story books | | |
| 7823 | Total books | | |
| Thus, the libi | ary has total 7823 books. | | |
| Mathematics | 30 | Std. 4 | |
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Pictures showing cost of different items







Observe pictures and understand :

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| 1 | | 1 1 | |
|---------|-----------------|-----------|-------------------|
| 4725 | price of a T.V. | 3 4 5 0 | price of a mobile |
| + 750 | price of pants | + 1 3 2 5 | price of a fan |
| 5 4 7 5 | total amount | + 330 | price of a shirt |
| | | 5105 | Total amount |
| | | | |

1. See the picture given above, find the total amount of the following, also find the missing pictures and draw them :

Practice 5

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(1) Price of a grinding mechine and a shirt -

- (1) Price of a grinding machine and a shirt =
- (2) Price of a cupboard and a sweater =

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2: Addition

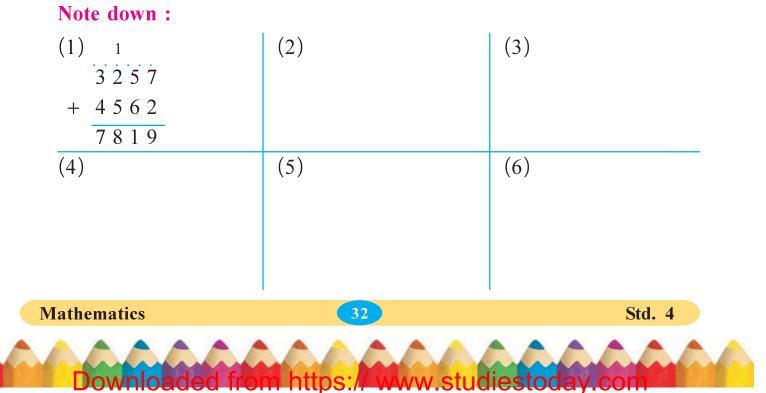
- (3) Price of a mobile, price of pants and price of a towel =
- (4) Price of a cupboard and price of a frock of young girl = \dots
- (5) Price of a grinding machine, price of a fan and price of a towel=
- (6) Price of a T.V., price of a mobile and price of a shirt =
- (7) Price of an electric motor, price of a sweater and price of pants =
- (8) Price of a cupboard, price of a towel and price of a frock =

Exercise

1. Play a game :

| 3251 | 4321 | 3296 | 1385 | 4327 |
|------|------|------|------|------|
| 4258 | 4562 | 1004 | 2467 | 3251 |
| 3257 | 3251 | 2327 | 3504 | 4327 |
| 1324 | 4326 | 2591 | 1398 | 3421 |
| 1598 | 49 | 752 | 1089 | 324 |

Rules of game : Drop a match stick on this number box from some height. Add these two numbers where two ends of this match stick touch.



2 : Addition

- **Perform the following addition :** 2.
 - (1) 5783 + 1214 + 2013 (2) 4328 + 2350 + 3251
 - (3) 99 + 875 + 6450
- $(4) \ 4325 \ + \ 3529 \ + \ 1213$
- In an APMC (The Agricultural Produce Market Committee) market 3. number of bags of grain noted in a day is as follows. Answer the following :

| No. | Item | Number of bags | No. | Item | Number of bags |
|-----|--------------|----------------|------|------------|----------------|
| (1) | Wheat | 4250 | (6) | Sesame | 1560 |
| (2) | Millet | 3254 | (7) | Ground nut | 3251 |
| (3) | Corn | 1329 | (8) | cotton | 1332 |
| (4) | Mustard | 3257 | (9) | Sorghum | 2350 |
| (5) | Castor seeds | 4325 | (10) | Toover | 3251 |

Questions :

(1) How many total bags of Millet and Groundnut are there ?

- (2) How many total bags of Mustard, Castor seeds and Corn are there ?
- (3) How many total bags of Sesame, Mustard and Millet are there ?
- (4) How many total bags of Millet, Ground nut and Sorghum are there ?
- (5) How many total bags of Wheat; Ground nut and cotton are there ?
- Iqbalbhai has sold wheat worth ₹ 7251 and Millet worth ₹ 1435. Then what 4. is the worth of total grain he has sold?
- Vishalbhai and Jitendrabhai have donated ₹ 5555 and ₹ 3509 respectively 5. to make a water tank in a school. What is the total amount of donation given by both?
- In a rationing shop; in the month of January rice worth ₹ 1650, wheat **6**. worth ₹ 3256 and sugar worth ₹ 2436 were sold. What is the total revenue of shopkeeper in this month?
- 1560 males, 2288 females and 1357 kids visited a funfair. How many 7. persons visited the funfair ?

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8. Visit Mid-day meal centre nearby you and collect the following information :

| Month | Beneficiaries of Mi | Beneficiaries of Mid-day meal plan | | | | | |
|----------|---------------------|------------------------------------|--|--|--|--|--|
| | Boys | Girls | | | | | |
| January | | | | | | | |
| February | | | | | | | |
| March | | | | | | | |

Answer the following :

(1) What is the total number of beneficiaries in the month of January ?

(2) What is the total number of beneficiaries in the month of February ?

(3) What is the total number of beneficiaries in the month of March?

| | | | Answers | •. | |
|----|--------------------|----------|------------|----------|--------|
| | | 4 | Practice 1 | | |
| 1. | (1) 3000 | (2) 7000 | (3) 5000 | (4) 9000 | |
| | (5) 9000 | (6) 7000 | (7) 8000 | (8) 5000 | |
| | | | Practice 2 | | |
| 1. | (1) 7853 | (2) 7686 | (3) 4989 | (4) 6288 | |
| | (5) 9859 | (6) 5788 | (7) 3489 | (8) 4397 | |
| 2. | (1) 9509 | (2) 5637 | (3) 6639 | (4) 5836 | |
| | (5) 4739 | (6) 3599 | (7) 2649 | (8) 5641 | |
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| | | | 2 : Addition | | |
| | | | Practice 3 | | |
| 1. | (1) 8861 | (2) 9766 | (3) 4073 | (4) 7948 | |
| | (5) 4916 | (6) 7585 | (7) 5455 | (8) 7611 | |
| 2. | (1) 6419 | (2) 8294 | (3) 6180 | (4) 6737 | |
| | (5) 8586 | (6) 9451 | (7) 4556 | | |
| | | | Practice 4 | | |
| 1. | (1) 8445 | (2) 4902 | (3) 7957 | (4) 5300 | |
| | (5) 6030 | (6) 6698 | (7) 3600 | | |
| 2. | (1) 5158 | (2) 9599 | (3) 8049 | (4) 9816 | |
| | (5) 6205 | (6) 7048 | (7) 3536 | (8) 8203 | |
| | | | Exercise | | |
| 2. | (1) 9010 | (2) 9929 | (3) 7424 | (4) 9067 | |
| 3. | (1) 6505 | (2) 8911 | (3) 8071 | (4) 8855 | (5) 8833 |
| 4. | 8686 | 5. ₹ 9064 6. ₹ | ₹ 7342 7. | 5205 | |

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Subtraction

Let us recall :

Let us play :

Play this game with your friend.

| 300 | 427 | 475 | 429 | 400 |
|-----|-----|-----|-----|-----|
| 633 | 700 | 555 | 867 | 786 |
| 325 | 568 | 100 | 146 | 900 |
| 362 | 200 | 246 | 425 | 800 |
| 111 | 732 | 500 | 367 | 600 |

Rules of game :

- (1) Collect two stones from the ground and drop them on this number square.
- (2) Subtract the smaller number from the greater number among two numbers on which these stones fall.
- (3) If the answer is correct, the player will get 10 points and then it is the turn of the other player. Play like this for 7 times.
- (4) The person who has the highest number of points will be the winner.So what are you waiting for ? Start the game.
- (5) Who is the winner ? By what margin ?



3

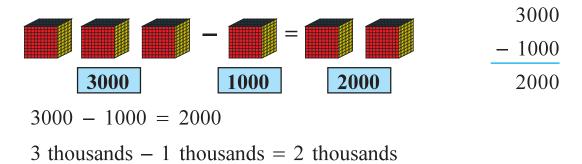
3 : Subtraction

| ote | • |
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| ote : | | | |
|---|-----|-----|-----|
| $\begin{array}{c} (1) 9 \\ & 6 \end{pmatrix} \\ & 7 \end{pmatrix} \\ \hline 7 \end{pmatrix} \\ \hline 9 \\ \hline 7 \end{pmatrix} \\ \hline 9 \\ \hline 7 \end{pmatrix} \\ \hline 1 3 2 \end{array}$ | (2) | (3) | (4) |
| (5) | (6) | (7) | (8) |

Let us learn something new :

Oral subtraction : ٠





1. Calculate orally and fill in the following blanks :

 $(1) 9000 - 3000 = \dots$ $(2) 8000 - 1000 = \dots$ $(3) 7000 - 2000 = \dots$ $(4) \ 3000 - 2000 = \dots$ $(5) \ 6000 - 1000 = \dots$ $(6) \ 4000 - 4000 = \dots$

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3 : Subtraction

Let us learn something new :

Subtraction of two numbers of four digits without borrowing :

Example 1 : 4356 – 2134

| | 1000 | 100 | | | | | | |
|---|------|-----|---|---|------------------------|----------------|------------------------|------------------------|
| | 4 | 3 | 5 | 6 | 1000 1000 1000 1000 | 100 100 100 | (10) (10) (10) (10) | ▲ ⋨ ⋨ ▲ ⋨ ⋨ |
| _ | 2 | 1 | 3 | 4 | 1000 1000 | 1.00 | Ø Ø Ø | <u>∕</u> X ∕X ∕X ∕X |
| | 2 | 2 | 2 | 2 | 1000 1000 | 100 100 | 10 10 | |

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | 4 | 3 | 5 | 6 |
| _ | 2 | 1 | 3 | 4 |
| | 2 | 2 | 2 | 2 |

This can also be written as :

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| | 4 | 3 | 5 | 6 |
|---|---|---|---|---|
| _ | 2 | 1 | 3 | 4 |
| | 2 | 2 | 2 | 2 |

Example 2 : 5431 - 2110

| | Thousands | Hundreds | Tens | Units | This can also be written as : |
|---|----------------------------|----------|------|-------|------------------------------------|
| | 5 | 4 | 3 | 1 | 5 4 3 1 |
| — | 2 | 1 | 1 | 0 | -2110 |
| | 3 | 3 | 2 | 1 | 3 3 2 1 |
| | Subtract (1) 858 | · · · · | (2) | 768 | Practice 2 36 (3) 5971 (4) 9467 |
| | - 735 | | ~~) | - 666 | |

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3 : Subtraction

2. Subtract :

(1) 8725 - 7514(2) 9815 - 3510(3) 3419 - 2305(4) 7429 - 3118

Subtraction of two numbers of four digits with borrowing :

Example 3 : 3252 – 1364

| | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | | 11 | 14 | |
| | 2 | X | X | 12 |
| | X | 2 | Z | Z |
| — | 1 | 3 | 6 | 4 |
| | 1 | 8 | 8 | 8 |

Example 4 : 8765 – 2873

| I | Thousands | Hundreds | Tens | Units |
|---|-----------|----------|------|-------|
| | | 16 | | |
| | 7 | ø | 16 | |
| | 8 | 7 | K | 5 |
| - | 2 | 8 | 7 | 3 |
| | 5 | 8 | 9 | 2 |

Example 5 : 9000 – 4685

| Thousands | Hundreds | Tens | Units |
|------------------------|------------|---------|--------|
| 8 | 9 16 | 9 16 | 10 |
| • • • • • • • • • • | <i>y</i> 0 | | |
| 9 1 | 0 | 0 8 | 0 5 |
| 4 | 0 | 0 | 5 |
| 4 | 3 | I | 5 |

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This can also be written as :

$$\begin{array}{c}
11 & 14 \\
2 & \swarrow & 12 \\
\hline & \swarrow & \swarrow & 12 \\
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3 : Subtraction

Think and write :

Form a four digit number using digits from 1 to 9. Obtain the number by interchanging the positions of digits at tens and units place, write them in the table and subtract the smaller number from the greater number.

| No. | The number of 4 digits that you have formed | The number obtained by interchanging the position of digits at tens and units | The answer obtained on subtracting the smaller number from the larger number |
|-----|---|--|---|
| (1) | 5639 | 5693 | |
| (2) | | | |
| (3) | | | |
| (4) | | | |
| (5) | | | |
| (6) | | | |

Practice 3

1. Subtract :

| (1) 3256 | (2) 5345 | (3) 8405 | (4) 5325 | (5) 8385 |
|----------|----------|----------|----------|----------|
| - 1876 | - 2786 | - 3765 | - 1489 | - 2778 |

2. Subtract :

| (1) 3635 - 2784 | (2) 7498 - 1809 | (3) 5181 – 999 |
|-----------------|-----------------|-----------------|
| (4) 7285 - 95 | (5) 9375 – 7287 | (6) 4524 - 3518 |

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3 : Subtraction

Practical examples :

Example 6 : On Tushar's birthday, his father went to a T.V. shop to purchase a T.V. with ₹ 8654 in his wallet. Having paid ₹ 7436 for the T.V. he was left with ₹ 1218. Is this the correct amount ?

[Understanding : Answer can be confirmed by subtracting ₹ 7436 from total ₹ 8654. If we get answer ₹ 1218 then the answer is correct.]

- 4 14
- 8654 Total amount with Tushar's father
- -7436 Price of the T.V.
 - 1218 Remaining amount

The amount ₹ 1218 remaining with Tushar's father is correct.

Example 7: 8328 pupils participated in district sports festival. Among these

4517 were girls, find the number of boys.

7 13

- 8328 Total number of pupils participated
- -4 5 1 7 Total number of girls participated
- 3 8 1 1 Total number of boys

3811 boys participated in sports festival.

• Observe, understand and write :

The list of items purchased by Jagrutiben for yearly household usage is as follows. Using this information answer the following questions :

| No. | Items | Amount |
|-----|------------------|--------|
| (1) | Clothings | ₹ 2233 |
| (2) | Grocery | ₹ 5674 |
| (3) | Vegetables | ₹ 978 |
| (4) | Household things | ₹ 3573 |
| (5) | Jewellery | ₹ 7678 |
| (6) | Mixer | ₹ 3434 |

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3 : Subtraction

- (1) For which item has Jagrutiben spent maximum amount? How much?
- (2) For which item has Jagrutiben spent minimum amount ? How much ?
- (3) Subtract the minimum amount spent from the maximum amount spent by Jagrutiben.
- (4) Of household things and vegetables, where is the maximum amount spent ? How much ?
- (5) Subtract the amount spent for clothings from the amount spent for jwellery.

Do it yourself :

Similar to Jagrutiben list, make a list of any six items purchased for your home and list its price against it in the following table :

| No. | Items | Amount |
|-----|-------|--------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Answer the questions :

- (1) For which item has the maximum amount been spent? How much?
- (2) For which item has the minimum amount been spent? How much?
- (3) Subtract the minimum amount from the maximum amount that has been spent in your home.
- (4) Find the difference in the amount of first item and the amount of last item.

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3 : Subtraction

Example 8 : Utsav enters a shop with ₹ 7321. He wants to buy different items. If he purchases a fan worth ₹ 1325, how much amount will he be left with ?

$$\begin{array}{r}
\begin{array}{c}
12 & 11 \\
6 & \cancel{\times} & \cancel{\times} & 11 \\
\hline
7 & \cancel{\times} &$$



Answer the following questions from given pictures :



- ₹ 5640 ₹ 3178 ₹ 1486
- (1) Which item's price is more; the T.V.'s or the cupboard's ? How much ?
- (2) Which item's price is less; the mobile's or the grinding machine's ? How much ?
- (3) What is the total amount of the Iron and the Fan ?
- (4) Which item's price is more; the electric motor's or the fan's ? How much ?
- (5) Which item's price is more; the T.V.'s or the mobile's ? How much ?
- (6) Find the difference between the cost of the highest priced item and that of the lowest priced item.

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3 : Subtraction

Example 9 : Simplify : 3560 + 2856 - 4725

| | 13 |
|-----------|--------|
| 1 1 | 5 11 |
| 3560 | ØXX6 |
| + 2 8 5 6 | - 4725 |
| 6416 | 1691 |

Example 10 : Simplify: 7435 - 5326 + 1326

| 2 15 | 1 |
|--------------|------------|
| 74 <i>35</i> | 2109 |
| - 5 3 2 6 | + 1 3 2 6 |
| 2109 | 3 4 3 5 |
| | Practice 5 |

1. Evaluate the following :

| $(1) \ 3425 \ + \ 2527 \ - \ 3259$ | $(2) \ 4257 \ - \ 3251 \ + \ 3250$ |
|------------------------------------|------------------------------------|
| $(3) \ 4527 \ - \ 3215 \ + \ 4327$ | (4) 8427 - 4325 - 1324 |
| (5) 5927 - 3257 + 1268 | $(6) \ 4529 + 3258 - 3540$ |

Let us understand :

Example 11 : Mahi has ₹ 8520. If she purchases a mobile phone worth ₹ 3250 and a fan worth ₹ 1325; how many rupees will be left with her ?

[Understanding : Subtract the price of the mobile phone from the amount Mahi has, then subtract the price of the fan from the remaining amount.]

| 4 12 | | 4 12 6 10 | |
|---------------|-------------------|---------------|------------------|
| 8 <i>5</i> Z0 | Rupees with Maahi | \$Z7 0 | Rupees were left |
| -3250 | Mobile price | -1325 | Fan price |
| 5270 | Rupees left | 3945 | Rupees left now. |

Now Maahi has 3945.

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3 : Subtraction

Example 12 : Manojbhai has ₹ 4529. His father gave him ₹ 3258. Then Manojbhai purchased a bicycle worth ₹ 5429. How much amount is left with him ?

[Understanding : We have to add rupees with Manojbhai and rupees given by his father and then we have to subtract the price of bicycle from it.]

| 1 | | 7 17 | |
|-----------|----------------------------|-----------------|------------------|
| 4529 | amount with Manojbhai | 77\$ <i>\$1</i> | Total amount |
| + 3 2 5 8 | amount given by his father | -5429 | Price of bicycle |
| 7787 | Total amount | 2358 | |

Now, ₹ 2358 is left with Manojbhai.



- 1. A merchant has 4526 oil tins and he purchased 3256 more oil tins. Out of these, he sold 3580 oil tins. How many oil tins are left with him ?
- Ramjibhai purchased fertilizer worth ₹ 5680 and seeds worth ₹ 1785 from the amount ₹ 9000 that he had. How much amount will be left with him ?
- **3.** Rahimbhai has 4645 kg paddy and 3485 kg wheat of which he sold 5985 kg grain. How much grain will be left with him ?
- **4.** There are 3585 male voters and 3540 female voters in a village. 4975 voters have voted in an election. Then how many voters did not vote ?
- Pareshbhai's monthly income is ₹ 6530. His wife's monthly income is ₹ 3412. Their monthly expense is ₹ 3196. Find out their monthly savings.

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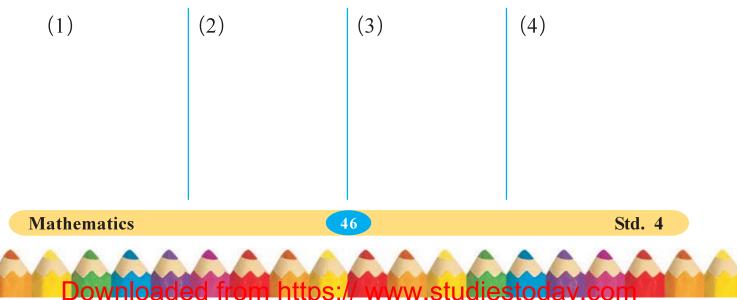


3 : Subtraction

1. Write 4 digit numbers of your choice in the following table in all empty boxes :

| 2325 | | |
|------|--|--|
| | | |
| | | |
| | | |
| | | |

- Read all the numbers.
- Fill in yellow colour in the boxes containing odd numbers.
- Fill in blue colour in the boxes containing even numbers.
- Select any two numbers, subtract the smaller number from greater number and note here.



3 : Subtraction

2. Subtract :

Mathematics

- $(1) \ 6452 \ -1640 \qquad (2) \ 3216 \ -1527$
- $(3) 9375 4852 \qquad (4) 4658 1779$
- **3.** There are 8975 persons in a village. 6997 of them are literate. How many of them are illiterate in this village ?
- 4. Meena purchased grain worth ₹ 3475 and for that she paid ₹ 4000 to the merchant. How much money will the merchant return to Meena?
- **5.** 7500 students appeared in an exam at an examination centre. 6845 of them passed the examination. How many of them got failed in the examination ?
- 6. 9436 plants were grown in a nursery. 6385 plants were planted at different places during *Van mahotsav*. From the remaining plants, 785 plants were donated to a school. How many plants were left in the nursery ?
- 7. Maheshbhai had got ₹ 9325. He purchased a cot worth ₹ 5790 from it, he also purchased a sofa set worth ₹ 3251. How much amount will be left with him ?
- 8. In a primary school, *Sarpanch* has donated ₹ 4551 to construct a water-tank. Teachers collected a contribution of ₹ 3565. Total expense of constructing water-tank was ₹ 7425. How much money was left ?
- **9.** Under programme of '*Vanche Gujarat*', 2425 books were given to a primary school library with the help of villagers. 1285 books were given to children and other villagers for reading. How many books are left in the library?



Practice 1

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Std. 4

1. (1) 6000 (2) 7000 (3) 5000 (4) 1000 (5) 5000 (6) 0

3 : Subtraction

Practice 2

- **1.** (1) 1231 (2) 1026 (3) 2111 (4) 2413
- 2. (1) 1211 (2) 6305 (3) 1114 (4) 4311

Practice 3

- **1.** (1) 1380 (2) 2559 (3) 4640 (4) 3836 (5) 5607
- **2.** (1) 851 (2) 5689 (3) 4182 (4) 7190 (5) 2088 (6) 1006

Practice 4

- 1. (1) Cupboard 1004 (2) Mobile 2390 (3) 2811
 - (4) Electric motor -1853 (5) T.V. -5274 (6) 8203

Practice 5

1. (1) 2693 (2) 4256 (3) 5639 (4) 2778 (5) 3938 (6) 4247

Practice 6

1. (1) 4202 (2) 1535 (3) 2145 (4) 2150 (5) 6746

Exercise

- **2.** (1) 4812 (2) 1689 (3) 4523 (4) 2879
- **3.** 1978 **4.** 525 **5.** 655 **6.** 2266
- **7.** 284 **8.** 691 **9.** 1140

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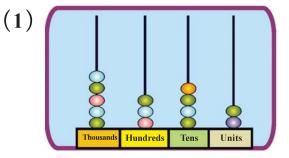
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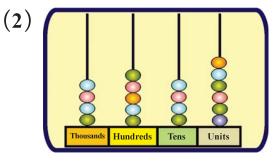
Revision : 1

1. Complete the following table :

| No. | Number in figure | Number in words |
|-----|------------------|--|
| (1) | 8047 | |
| (2) | | Six thousand five hundred and twenty three |
| (3) | 5002 | |
| (4) | | Nine thousand two hundred and fifty four |

2. Find number from the beads placed in the abacus :



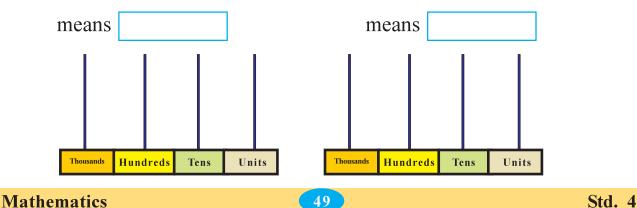


....thousandshundredstensunitsthousandshundredstensunits means ______

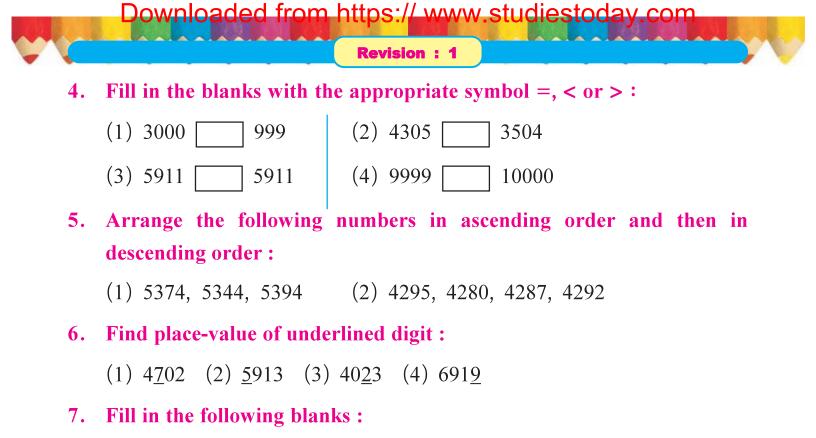
3. Write four digit numbers of your choice in the given boxes and expand by drawing beads in abacus :

....thousandshundredstensunits

....thousandshundredstensunits



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- (1) The number immediately preceding 3979 is
- (2) The number immediately succeeding 4579 is
- (3) The number immediately succeeding the greatest number of three digits is

8. Evaluate the following sums :

| (1) 2415 | (2) 3516 | (3) 4478 | (4) 3251 |
|----------|----------|----------|----------|
| + 3592 | + 2189 | + 2609 | + 2518 |
| | + 3932 | + 1871 | + 2054 |

9. Evaluate the following sums :

| (1) 9843 | (2) 7622 | (3) 9605 | (4) 7000 |
|----------|----------|----------|----------|
| - 4376 | - 2337 | - 3515 | - 1328 |

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|-----|----------|----------|-----------------------------|---------------|--|
| (5) | 5420 | (6) 3251 | (7) 8704 | (8) 6600 | |
| _ | - 1675 | - 2985 | - 5518 | - 1671 | |

10. Evaluate :

- (1) 5236 + 1256 3251 (2) 4258 1325 + 90(3) 4325 + 226 - 35 (4) 3250 - 1567 + 456
- 11. Monthly income of Rekha's father is ₹ 5840. Her mother's monthly income is ₹ 3425. Her grandmother earns ₹ 325 per month through home production business. What is the total monthly income of Rekha's family ?
- 12. Het has ₹ 9544. He bought DVD player worth ₹ 3256. How much money will be left with him ?
- **13.** Total population of a village is 5231 among them, 2024 are male and 1938 are female. Find out the number of children in the village ?
- 14. Muskan had ₹ 3524. She got ₹ 5952 as salary. She purchased grain worth ₹ 2238. How much money will be left with her ?



- 1. (1) Eight thousand and forty seven (2) 6523
 - (3) Five thousand and two (4) 9254
- **2.** (1) 5342 (2) 4546 **4.** (1) > (2) > (3) = (4) <
- **5.** (1) In ascending order : 5344, 5374, 5394

In descending order : 5394, 5374, 5344

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Revision : 1

(2) In ascending order : 4280, 4287, 4292, 4295

In descending order : 4295, 4292, 4287, 4280

- **6.** (1) 700 (2) 5000 (3) 20 (4) 9 **7.** (1) 3978 (2) 4580 (3) 1000
- **8.** (1) 6007 (2) 9637 (3) 8958 (4) 7823
- **9.** (1) 5467 (2) 5285 (3) 6090 (4) 5672
 - (5) 3745 (6) 266 (7) 3186 (8) 4929
- **10.** (1) 3241 (2) 3023 (3) 4516 (4) 2139
- 11. ₹ 9590
 12. ₹ 6288
- **13.** 1269 children **14.** ₹ 7238

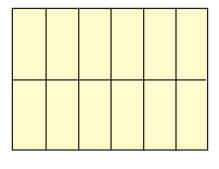


Multiplication

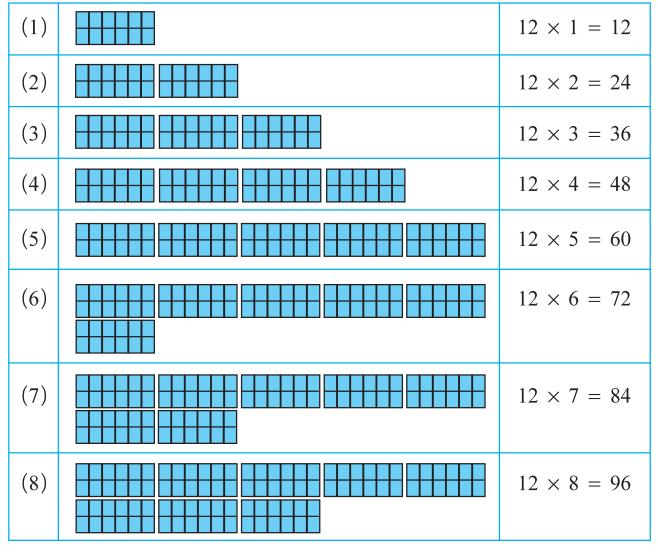
Let us learn something new :

4

Construction of multiplication tables : Construction of multiplication table of 12 :



- Cut a chart paper of a size of a match box.
- Draw twelve equal sized boxes on it.
- Prepare 55 checkscards like this.
- Arrange in the following manner and construct the tables.



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4 : Multiplication

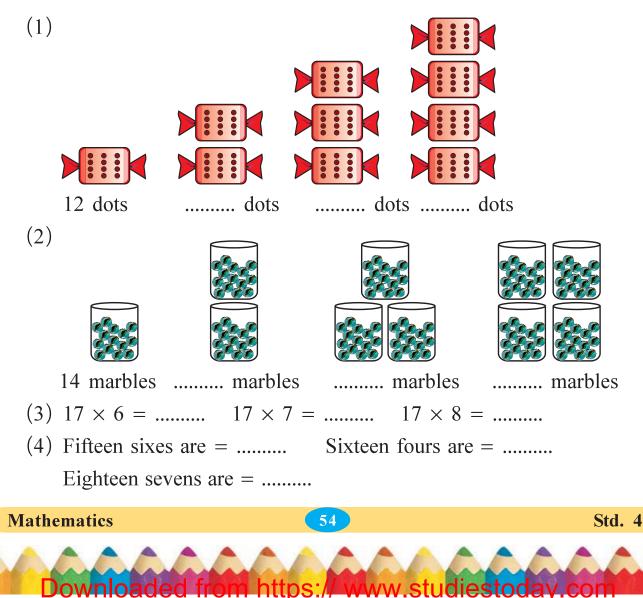
Construction of multiplication table of 13 :

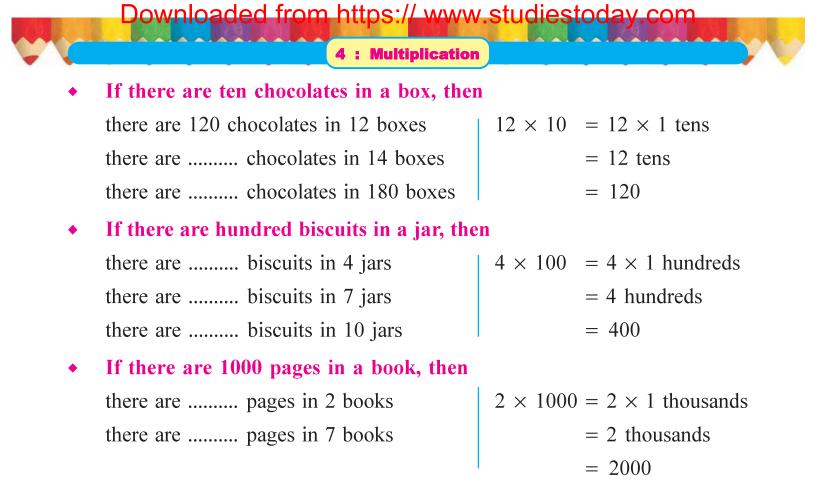
| (1) | 13 one time $= 13$ | $13 \times 1 = 13$ |
|-----|-----------------------------|--------------------|
| (2) | 13 + 13 = 26 | $13 \times 2 = 26$ |
| (3) | 13 + 13 + 13 = 39 | $13 \times 3 = 39$ |
| (4) | 13 + 13 + 13 + 13 = 52 | $13 \times 4 = 52$ |
| (5) | 13 + 13 + 13 + 13 + 13 = 65 | $13 \times 5 = 65$ |

Following the above method, construct multiplication tables of 11 to 20 and write the tables in your note-book.

Practice 1

1. Answer the following with the help of tables :





If a number is multiplied by zero, the answer is zero.
 e.g. 15 × 0 = 0

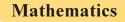
1. Multiply orally and fill in the blanks :

| (1) 5×10 | = | (2) 100×8 | = |
|---------------------|---|----------------------|---|
| (3) 1000×3 | = | (4) 7×10 | = |
| (5) 15×100 | = | (6) 1000×6 | = |
| (7) 10×335 | = | (8) 27×100 | = |
| (9) 9×1000 | = | $(10) 35 \times 200$ | = |
| | | | |

Multiplication of a two digit number with a two digit number :

Cost of the set of instruments shown in adjoining figure is ₹ 25.

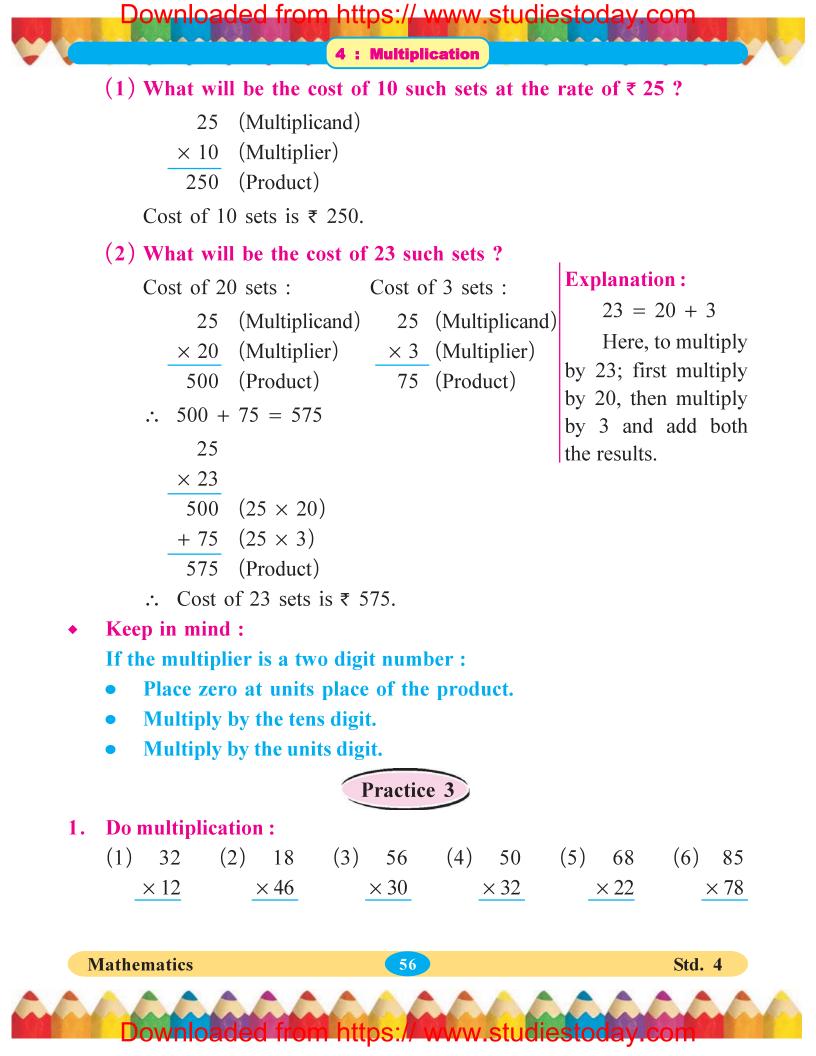
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4 : Multiplication

2. Multiply the following :

(1) 32×15 (2) 35×14 (3) 64×64 (4) 63×52

3. Multiply the following :

| 12 | 14 | 22 | 32 | 52 |
|----|----|----|----|----|
| 12 | 42 | 27 | 18 | 26 |
| 33 | 44 | 19 | 10 | 29 |
| 50 | 40 | 21 | 36 | 45 |

Your friend and you select a number each. Multiply the selected two numbers with each other.

• Activity 1 :



- (1) How many currency notes of denomination of 100 rupees are there ?
- (2) What is the total amount ?
- (3) What did you do to find the total amount ?
- (4) How many currency notes of denomination of 10 rupees are there ?
- (5) What is the total amount of both kinds of currency notes ?

| | Mathematics 57 | Std. 4 |
|---|---|-------------------------|
| • | 1000 + 100 = 1100 (Eleven hundred rupees) | (Eleven hundred rupees) |
| | +10 + 10 + 10 = 100 | 1100 |
| • | 10 + 10 + 10 + 10 + 10 + 10 + 10 | $10 \times 10 = 100$ |
| | +100 + 100 + 100 + 100 = 1000 | |
| • | 100 + 100 + 100 + 100 + 100 + 100 | $100 \times 10 = 1000$ |

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4 : Multiplication

Observe and understand :

15 currency notes of \gtrless 100 + 15 currency notes of \gtrless 50 + 15 currency notes of \gtrless 5 = How much money in all ?

15 currency notes of ₹ 100 = 100 × 15 = ₹ 1500 15 currency notes of ₹ 50 = 50 × 15 = ₹ 750 15 currency notes of ₹ 5 = 5 × 15 = ₹ 75 Now, 1500 + 750 + 75 = ₹ 2325 Example 1 : Multiply : 823 × 12 Solution : 8 2 3 × 1 2 (10 + 2) 8 2 3 0 (823 × 10) + 1 6 4 6 (823 × 2)

9876

 $823 \times 12 = 9876$

Practice 4

1. Multiply:

| (1) | 412 | (2) | 584 | (3) | 342 | (4) | 282 | (5) | 196 |
|-----|------|-----|------|-----|------|-----|------|------|------|
| | × 13 | | × 16 | | × 18 | | × 18 | | × 15 |
| (6) | 713 | (7) | 403 | (8) | 315 | (9) | 123 | (10) | 304 |
| | × 12 | | × 21 | | × 22 | | × 70 | | × 27 |

2. Test your mind :

| А | В | С | D | Е | F | G | Η | Ι | J | |
|---|------|---|---|-----|---|-----|---|---|-------------|------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | BFG | | | DIA | | BE | D | | CEH | BAC |
| | × BC | | × | BG | | × C | D | | \times EA | × DB |

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4 : Multiplication

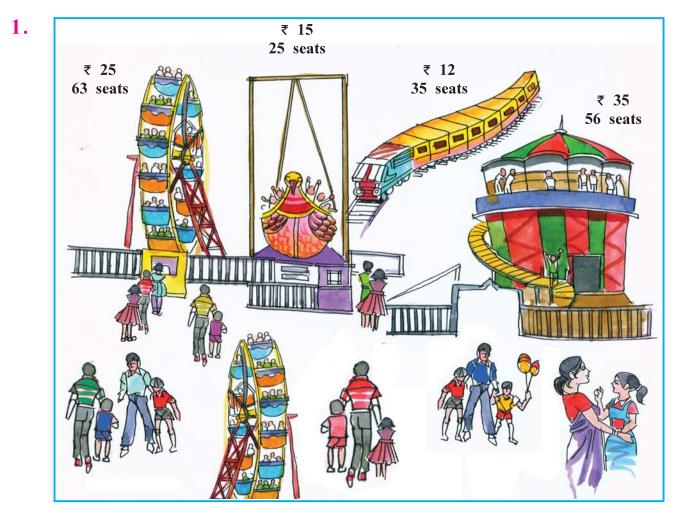
3. Find mistake and correct it :

| (1) | 345 | (2) 308 | (3) 528 | (4) | 109 |
|-----|-------|---------|---------|-----|-------|
| | × 12 | × 18 | × 16 | | × 50 |
| | 3450 | 3080 | 528 | | 1090 |
| | + 680 | + 2544 | + 3228 | | + 109 |
| | 4030 | 5624 | 3646 | | 1199 |
| | | | | | |

D Practical problems :

(

Practice 5



If 29 children sit in one trip of the train, how much does the owner of the train earn in that trip ?



4 : Multiplication

Solution : If the cost of a ticket is \neq 12,

then the cost of 29 tickets = (29×12) 29 $\times 12$ 290 + 58 348 **₹ 348 earned.**

- (1) If two persons sit in the train, then how much do they pay ?
- (2) How much does the boat keeper earn at the most in a single trip ?
- (3) How much does the merry-go-round keeper earn at the most in a single trip ?
- (4) How much does the train keeper earn at the most in a single trip?
- (5) If 49 persons watch the death-well show, then how much does the owner earn ?
- 2. Tell the price from price-list :

| Price-list | 1 kilogram : Price (₹) | | | | |
|------------|------------------------|--|--|--|--|
| Oil | 85 | | | | |
| Ghee | 280 | | | | |
| Wheat | 25 | | | | |
| Sugar | 38 | | | | |
| Jaggery | 45 | | | | |
| Black gram | 36 | | | | |

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4 : Multiplication

- (1) What is the cost of 15 kilogram of Ghee ?
- (2) How much money do we need to purchase 140 kilogram of wheat?
- (3) How much money do we need to purchase 108 kilogram of jaggery?
- (4) Maitri has purchased 12 kilogram of black gram. What amount should she pay ?

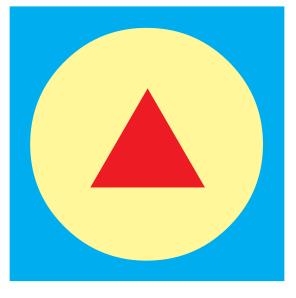


Answer with the help of multiplication tables : 1.

- (1) $12 \times 7 = \dots$
- (3) $15 \times 9 = \dots$
- (2) 18 × 6 =
 (4) Fourteen sixes are =

Multiply orally : 2.

Take 9 tiny pebbles and drop them gently on the following figure :



If the place-value \square box is 1000

the place-value () box is 100

the place-value \triangle box is 10, then obtain the number according to the possition of tiny pebbles.



4 : Multiplication

3. In a toy shop, one day sale is as follows. From this, answer the following questions :

| Price of toys Day | Doll (₹ 55) | Motor car (₹ 80) | Hockey-stick (₹ 75) |
|----------------------|--------------------|------------------|---------------------|
| Monday | 32 | 18 | 33 |
| Tuesday | 46 | 35 | 48 |
| Wednesday | 38 | 26 | 55 |

Questions :

- (1) How much amount is made from the sale of Hockey-stick on Monday?
- (2) How much amount is made from the sale of Dolls on Wednesday ?
- (3) How much amount is made from the sale of Toys on Tuesday?
- (4) How much amount is made from the sale of Motor-cars on Monday ?

4. Look at the table and answer the questions :

| No. | Worker | Income per day (in rupees) |
|-----|------------|----------------------------|
| (1) | Carpenter | 500 |
| (2) | Cobbler | 250 |
| (3) | Blacksmith | 300 |
| (4) | Mason | 600 |
| (5) | Tailor | 720 |

Questions :

- (1) If the carpenter does not work for three days in the month of January, then how much income does he lose for these three days ?
- (2) If the black-smith works for all the days of July, then how much does he earn ?

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4 : Multiplication

- (3) If the cobbler does not work for seven days in the month of April, then what would be his income ?
- (4) Who earns the highest in a day ? If he does not work for four Sundays in the month of June, then what would be his loss in that month ?



Practice 1

(1) 24, 36, 48
 (2) 28, 42, 56
 (3) 102, 119, 136
 (4) Ninety, Sixty four, One hundred and twenty six

Practice 2

 1. (1) 50
 (2) 800
 (3) 3000
 (4) 70
 (5) 1500

 (6) 6000
 (7) 3350
 (8) 2700
 (9) 9000
 (10) 7000

Practice 3

- **1.** (1) 384 (2) 828 (3) 1680 (4) 1600 (5) 1496 (6) 6630
- **2.** (1) 480 (2) 490 (3) 4096 (4) 3276

Practice 4

- 1. (1) 5356 (2) 9344 (3) 6156 (4) 5076 (5) 2940

 (6) 8556 (7) 8463 (8) 6930 (9) 8610 (10) 8208
- 2. Test your mind : (1) BIHC (1872) (2) GAIA (6080) (3) DCIJ (3289)
 - (4) JIIA (9880) (5) DBGC (3162)

Practice 5

- **1.** (1) 24 (2) 375 (3) 1575 (4) 420 (5) 1715
- **2.** (1) 4200 (2) 3500 (3) 4860 (4) 432

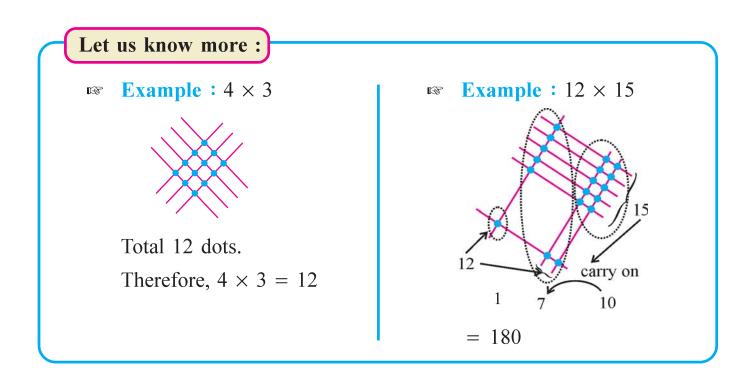
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Exercise

- (1) 84 (2) 108 (3) 135 (4) Eighty four (5) One hundred and four
 (6) Ninety five
- **3.** (1) 2475 (2) 2090 (3) 8930 (4) 1440
- **4.** (1) 1500 (2) 9300 (3) 5750 (4) Tailor, 2880





Numbers : 2

Activity 1 :

5

See, Priyanshi arranges 8 tamarind seeds in different types of groups. Now, you make different types of groups of 8 tamarind seeds similarly. How many different types of groups can you form ?



- (1) How many groups of one tamarind seeds are formed ?How many tamarind seeds remain ?
- (2) How many groups of two tamarind seeds are formed ?How many tamarind seeds remain ?
- (3) How many groups of three tamarind seeds are formed ?How many tamarind seeds remain ?
- (4) How many groups of four tamarind seeds are formed ?How many tamarind seeds remain ?
- (5) How many groups of five tamarind seeds are formed ?How many tamarind seeds remain ?
- (6) How many groups of six tamarind seeds are formed ?How many tamarind seeds remain ?
- (7) How many groups of seven tamarind seeds are formed ?How many tamarind seeds remain ?
- (8) How many groups of eight tamarind seeds are formed ?How many tamarind seeds remain ?



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5 : Numbers : 2

Do the following division from preceding activity :

| (1) 1 8 | (2) 2 | 8 (3) | 3 8 | (4) 4 | 8 |
|---------|-------|-------|-----|-------|---|
| (5) 5 8 | (6) 6 | 8 (7) | 7 8 | (8) 8 | 8 |

Understand from Activity 1 :

- When groups of 1's, 2's, 4's and 8's are formed, not a single tamarind seed remains. This type of division is called 'division without leaving a remainder'.
- In (1), (2), (4) and (8) there are divisions without leaving a remainder.
- When groups of 3's, 5's, 6's and 7's are formed, some tamarind seeds remain. The number which remains at the end of division is called the remainder.
- In (3), (5), (6) and (7) we get remainders.

Thus, 8 is exactly divisible (without a remainder) by 1, 2, 4 and 8. Therefore, 1, 2, 4 and 8 are said to be factors of 8.

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If certain numbers divide a given number, without leaving any remainder, then those certain numbers are said to be the factors of the given number.

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5 : Numbers : 2

Example 1 : Give factors of 24.

 $24 \div 1 = 24, 24 \div 2 = 12, 24 \div 3 = 8, 24 \div 4 = 6,$

 $24 \div 6 = 4, 24 \div 8 = 3, 24 \div 12 = 2, 24 \div 24 = 1$

Thus, 24 is exactly divisible by 1, 2, 3, 4, 6, 8, 12 and 24.

Therefore, 1, 2, 3, 4, 6, 8, 12 and 24 are factors of 24.

Explanation of factors by multiplication :

• Activity 2 :

You have a chart of multiplication tables by multiplication from 1 to 20. In which multiplication tables do the following numbers given in the first column occur ? Find this by making a pair with friends and write down in the table :

| Sr. | Multiplicative format | In which tables ? | No. of |
|-----|---|-------------------|---------|
| No. | | (Factors) | factors |
| 1 | 1×1 | 1 | 1 |
| 2 | $1 \times 2, 2 \times 1$ | 1, 2 | 2 |
| 3 | $1 \times 3, 3 \times 1$ | 1, 3 | 2 |
| 4 | $1 \times 4, 2 \times 2, 4 \times 1$ | 1, 2, 4 | 3 |
| 5 | | | |
| 12 | | | |
| 14 | | | |
| 15 | | | |
| 18 | | | |
| 20 | $1 \times 20, 2 \times 10, 4 \times 5, 5 \times 4,$ | 1, 2, 4, 5, 10, | 6 |
| | $10 \times 2, 20 \times 1$ | 20 | |

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5 : Numbers : 2

Activity 3 : Complete the table by multiplying as explained in the example :

| × | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 3 | | | | 12 | | | | 24 | | | | |
| 4 | | | 12 | | | | | | | 40 | | |
| 5 | | | | | | | | | | | | |
| 6 | | 12 | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | 72 | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | 66 | | | | | | |
| 12 | 12 | | | | | | | | | | | |

Look at the pink boxes in the table. 12 can be obtained by multiplying different numbers. e.g.,

 $1 \times 12 = 12, 2 \times 6 = 12, 3 \times 4 = 12, 4 \times 3 = 12, 6 \times 2 = 12,$ $12 \times 1 = 12$

• From this, we can say that 1, 2, 3, 4, 6 and 12 are the factors of 12.

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5 : Numbers : 2

Answer the following from above table :

- (1) What are the factors of 10 ?
- (2) Which is the greatest number, of which factors can be obtained from this chart ?
- (3) What can be done to obtain factors of a number greater than 12 ?
- The smallest factor of every number is 1.
- The largest factor of any number is the number itself.
- 1 is the factor of every number.

Practice 1

1. Fill in the blanks :

- (1) For any number, the smallest factor is
- (2) The largest factor of 15 is
- (3) Number of factors of 16 is

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- (4) If the largest factor of a number is 72, then the number is
- (5) Write all the factors of 18 :
- (6) Write all the factors of 24 :
- (7) Write all the factors of 30 :
- (8) Write all the factors of 37 :
- (9) Since $9 \times 5 = 45$, and are factors of 45.
- (10) Since $8 \times 7 = 56$, and are factors of 56.

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5 : Numbers : 2

2. Write down all the factors of the given numbers :

| No. | Numbers | Factors of number |
|-----|---------|-------------------|
| 1. | 12 | |
| 2. | 36 | |
| 3. | 42 | |
| 4. | 66 | |
| 5. | 84 | |

Multiples :

• Activity 4 : "*Mew-game*"

All students make a circle to play this game. A player says 'one', the next player says 'two' and in this way the game goes on. In turn, the player has to utter *mew* instead of a number divisible by 3. If someone misses to utter 'mew', he is out of the game. The one who remains till last is the winner.

For which numbers, did you utter 'mew' ?

3, 6, 9,

We call these numbers multiples of 3.

Play this game again by changing to number 4 in place of number 3. Now, for which numbers did you utter '*mew*' ?

These numbers are multiples of 4.

Now, let us understand :

We obtain multiples of 9 :

 $9 \times 1 = 9$, therefore 9 is a multiple of 9.

 $9 \times 2 = 18$, therefore 18 is a multiple of 9.

 $9 \times 3 = 27$, therefore 27 is a multiple of 9.

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In the same way, 9, 18, 27, 36,, 63,, 63,, 81, etc. are the multiples of 9.

Answer the following :

- (1) How many multiples of 9 are there ?
- (2) Number of multiples of any number are
- (3) The smallest multiple of any number is

Write the multiples of the given numbers in the given box :

| $4 \rightarrow$ | 4, 8, 12, 16, 20, 24, 28, |
|-----------------|---------------------------|
| $5 \rightarrow$ | |
| $6 \rightarrow$ | |
| $7 \rightarrow$ | |

- The number of multiples of any number are endless.
- The smallest multiple of any number is the number itself.
- A number has no largest multiple.
- Each number is a multiple of 1.
- Write any five multiples of 5 :
- Write any five multiples of 7 :

| | | _ |
|--|--|---|
| | | |
| | | |
| | | |
| | | |
| | | |

Multiple : If a number is exactly divisible by a given number, then the number is called a multiple of the given number.

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5 : Numbers : 2

Practice 2

1. Write first five multiples of each number given below : Example : Multiples of 2 : 2, 4, 6, 8, 10

(1) Multiples of $12 = \dots, \dots, \dots, \dots, \dots, \dots$

- (2) Multiples of $15 = \dots, \dots, \dots, \dots, \dots, \dots$
- (3) Multiples of $17 = \dots, \dots, \dots, \dots, \dots, \dots$
- (4) Multiples of $19 = \dots, \dots, \dots, \dots, \dots, \dots$

2. Write missing multiples of the given numbers :

- (1) Multiples of $13 = 13, 26, \dots, 65, \dots, 91$
- (2) Multiples of 14 = 14,, ..., ..., 84,
- (3) Multiples of 16 = 16,, ..., 80,, 80,
- (4) Multiples of 18 = 18,, 72,, 72,,

• Comparison :

| Factor | Multiple |
|---------------------------------------|--------------------------------------|
| (1) If certain numbers divide a given | (1) If a number is exactly divisible |
| number, without leaving any | by a given number, then the |
| remainder, then those certain | number is said to be a multiple |
| numbers are said to be the | of the given number. |
| factors of the given number. | |
| (2) A number is exactly divisible by | (2) Each multiple of a given |
| each of its factors. | number is exactly divisible by |
| | the given number. |
| (3) 1 is a factor of all the numbers. | (3) All numbers are multiples of 1. |
| (4) A factor of any number is not | (4) Multiple of any number is not |
| larger than that number. | smaller than that number. |
| Mathematics 72 | Std. 4 |

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5 : Numbers : 2

The largest factor of a number = The smallest multiple of the number = The number itself.

• Prime and composite numbers :

Classify the numbers in the first column of the chart given on page 67. Write in the following table :

| Numbers having only one factor | Numbers having only two factors | Numbers having more than two factors |
|--|------------------------------------|---|
| | | |
| 1 is neither a prime nor a composite number. | Prime numbers | Composite numbers |

- A number which has more than 2 factors is called a **composite number**. If a number is exactly divisible by 1, itself and atleast one more other number, then that number is called a composite number.
- Now, let us think about 18, then 18 ÷ 1 = 18, 18 ÷ 18 = 1, 18 ÷ 3 = 6. This means that, 18 is exactly divisible by 1 and 18, moreover, also by 3 and 6. Therefore, 18 is a composite number.
- The number which has only 2 factors is called a **prime number**. This means a number which can only be divided by 1 and the number itself is a prime number.
- Now, we know that 19 has only two factors, 1 and 19. So, 19 is a prime number.
- 2 is the only number which is prime as well as even.

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• Number of factors of 1 is only 1, this means that 1 is exactly divisible by only 1. So, 1 is neither a prime number nor a composite number.

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5 : Numbers : 2

Practice 3

Write as directed :

| Sr. No. | Number | Factors | Total number of factors | Prime or composite ? |
|------------|--------|---------|----------------------------|-------------------------|
| (1) | 21 | | | |
| (2) | 25 | | | |
| (3) | 31 | | | |
| (4) | 37 | | | |
| (5) | 44 | | | |
| (6) | 47 | | | |
| (7) | 50 | | | |

Exercise

1. Give all the factors of the following numbers :

(1) 8 (2) 20 (3) 28 (4) 43

2. Encircle the multiples of the given numbers :

| No. | Number | Is it a multiple ? |
|-----|--------|------------------------------|
| (1) | 11 | 17, 22, 28, 33, 40, 44 |
| (2) | 15 | 70, 75, 80, 85, 90, 105 |
| (3) | 17 | 85, 111, 119, 125, 136, 140 |
| (4) | 18 | 103, 108, 116, 126, 127, 144 |
| (5) | 20 | 100, 110, 120, 130, 140, 150 |

- 3. Classify the following numbers into prime numbers and composite numbers :
 - 3, 4, 5, 6, 8, 9, 11, 14, 17, 19, 20, 22, 25, 29, 32, 33, 36, 37, 43, 49

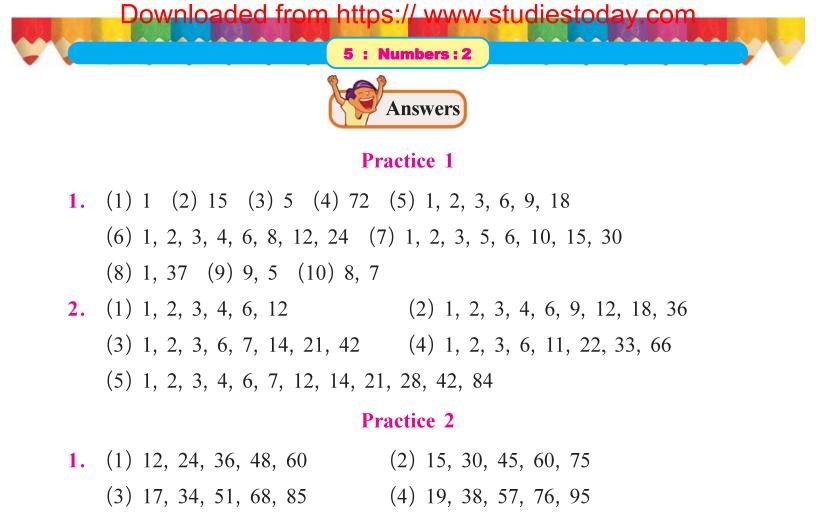
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- **2.** (1) 39, 52, 78
 - (3) 32, 48, 64, 96, 112

(4) 36, 54, 90, 108, 126Practice 3

(2) 28, 42, 56, 70, 98

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| Factors | Numbers of factors | Prime or Composite |
|-------------------------|--------------------|--------------------|
| (1) 1, 3, 7, 21 | 4 | Composite |
| (2) 1, 5, 25 | 3 | Composite |
| (3) 1, 31 | 2 | Prime |
| (4) 1, 37 | 2 | Prime |
| (5) 1, 2, 4, 11, 22, 44 | 6 | Composite |
| (6) 1, 47 | 2 | Prime |
| (7) 1, 2, 5, 10, 25, 50 | 6 | Composite |
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5 : Numbers : 2

Exercise

- **1.** (1) 1, 2, 4, 8 (2) 1, 2, 4, 5, 10, 20
 - (3) 1, 2, 4, 7, 14, 28 (4) 1, 43
- **2.** (1) 22, 33, 44 (2) 75, 90, 105 (3) 85, 119, 136
 - (4) 108, 126, 144 (5) 100, 120, 140
- **3.** Composite numbers : 4, 6, 8, 9, 14, 20, 22, 25, 32, 33, 36, 49

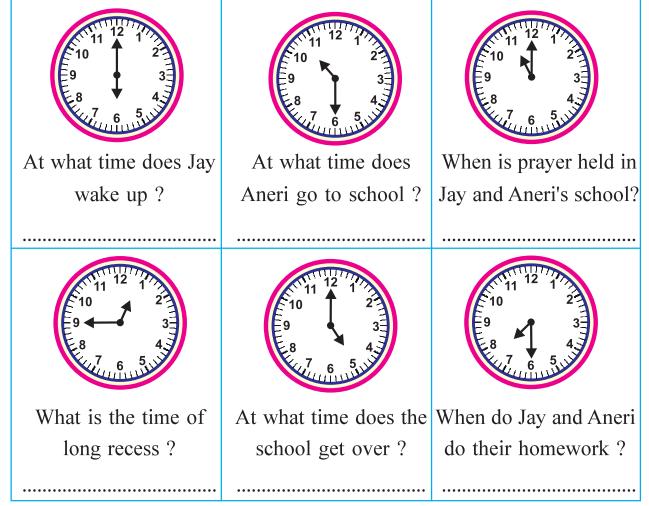
Prime numbers : 3, 5, 11, 17, 19, 29, 37, 43



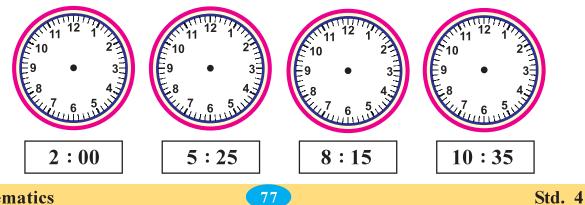


Let us recall :

Activity 1 : Look at the pictures and fill in the blanks :



Activity 2 : Draw minute-hand and hour-hand in the clock face (dial) according to the time given below :



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Mathematics

6 : Time

Let us learn something new :

• Second

Activity 3 :

Observe the second-hand of a clock placed in front of you.

What do you say :

- (1) When the second-hand of a clock moves from number 12 to 1, how many marks does it move ?
- (2) When the second-hand of a clock starts from 12 and returns back to 12, how many marks does it move ?

When the second-hand moves from one mark to another, it is known as moving by 1 second. When second-hand starts from 12 and returns back to 12, its movement is known as 1 minute. Hence, 60 seconds = 1 minute.

• Minute :

What do you say :

- (1) When the minute-hand of a clock moves from number 12 to 1, how many marks does it move ?
- (2) When the minute-hand of a clock starts from 12 and returns back to 12, how many marks does it move ?

When the minute-hand moves from one mark to another, its movement is known as 1 minute. When minute-hand starts from 12 and returns back to 12, time consumed is known as 1 hour. Hence, 60 minutes = 1 hour.

• Day :

What do you say :

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- (1) When the hour-hand moves from number 12 to 1, time is one hour.When it moves from number 12 to 2, time is 2 hours.
- (2) If the hour-hand starts from 12 and returns back to 12, how many hours is it ?

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Mathematics

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6 : Time

From 12 O'clock midnight to 12 O'clock noon and 12 O'clock noon to 12 O'clock midnight there are total 24 hours.

Duration between one sunrise to another sunrise is called a day.

Hence, 24 hours = 1 day.

- Generally the duration of 24 hours is denoted in two ways :
 - (1) System of 12 hours (2) System of 24 hours

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| Starting from 12 (| O'clock Midnight | Starting from 12 O'clock Noon | | | | | | | |
|-----------------------|-----------------------|-------------------------------|---|--|--|--|--|--|--|
| System of 12 hours | System of 24 hours | System of 12 hours | System of 24 hours | | | | | | |
| 12:00 | 00:00 | 12:00 | 12:00 | | | | | | |
| 1:00 | 1:00 | 1:00 | 13:00 | | | | | | |
| 2:00 | 2:00 | 2:00 | 14:00 | | | | | | |
| 3:00 | 3:00 | 3:00 | 15:00 | | | | | | |
| 4:00 | 4:00 | 4:00 | 16:00 17:00 18:00 19:00 20:00 | | | | | | |
| 5:00 | 5:00 | 5:00 | | | | | | | |
| 6:00 | 6:00 | 6:00 | | | | | | | |
| 7:00 | 7:00 | 7:00 | | | | | | | |
| 8:00 | 8:00 | 8:00 | | | | | | | |
| 9:00 | 9:00 | 9:00 | 21:00 | | | | | | |
| 10:00 | 10:00 | 10:00 | 22:00 | | | | | | |
| 11:00 | 11:00 | 11:00 | 23:00 | | | | | | |
| 12:00 | 12:00 | 12:00 | 00:00 | | | | | | |
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6 : Time

• Week :

Write the names of the days of a week in your note-book.

Count the days and say how many days are there ?

Seven days = 1 week

• Month :

Answer the following questions by examining the calendar in your class-room :

- (1) How many days are there in the month of March?
- (2) How many days are there in the month of February ?
- (3) How many days are there in the month of November ?

Calendar

One can know the date of any day of any month from calendar :

September 2012

September 2012

.....

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| | IJ | Ŷ | sday | lay | | ay | Sunday | | 2 | 9 | 16 | 23 | 30 |
|--------|--------|---------|-----------|----------|--------|----------|-----------|---|---|----|----|----|----|
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Monday | | 3 | 10 | 17 | 24 | |
| | | | | | | 1 | Tuesday | | 4 | 11 | 18 | 25 | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | Wednesday | | 5 | 12 | 19 | 25 | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | Thursday | | 6 | 13 | 20 | 27 | |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | Friday | | 7 | 14 | 21 | 28 | |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 1 | 8 | 15 | 22 | 29 | |
| 30 | | | | | | | Saturday | I | 0 | 13 | | 47 | |

• Names of the days are written in horizontal or vertical rows in the calendar.

• Usually, red ink is used to indicate Sundays and also the dates falling on Sundays.

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6 : Time

- Usually, the dates of public holidays are also printed with red ink.
- In many calendars, the months and days (*Tithi*) of *Vikramsamvat* are also mentioned with the date.
- Names of the main festivals are also written with the respective dates.

Study the month of September in the given calendar of 2012 and answer the following questions :

| (1) How many Sundays are there ? | ••••• |
|------------------------------------|-------|
| (2) How many Thursdays are there ? | |
| (3) Which days occur four times ? | ••••• |
| (4) Which days occur five times ? | ••••• |
| | |

• Let us understand :

If there is Saturday on 1st, then by adding 7 successively, we get the dates of Saturdays. that is 1 + 7 = 8, 8 + 7 = 15, 15 + 7 = 22, 22 + 7 = 29, so, 1, 8, 15, 22 and 29 dates occur on Saturday.

In the same way, if there is a Monday on date 3, then 3 + 7 = 10, 10 + 7 = 17, 17 + 7 = 24 and 24 + 7 = 31 occur on Mondays.

The same day occurs if 7 is subtracted from the date of any given day.

Think and write :

(1) If there is a Tuesday on 2nd of October, then on which other dates will there be Tuesdays ?

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(2) If there is a Sunday on 27th of April, then on which other dates will there be Sundays in the same month ?

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(3) If there is a Wednesday on 8th of January, then on which other dates will there be Wednesdays in the same month?

Activity 4 :

Study the current year calendar of your classroom and answer the following questions :

(1) On which dates do Sundays occur in the month of January?

- (2) How many days are there in the month of February ?
- (3) Count and write the total number of days of this year. -----
- (4) How many months begin with Mondays?

Understand:

- (1) 60 seconds = 1 Minute (2) 60 Minutes = 1 Hour
- (3) 24 hours = 1 Day
- (5) 52 Weeks = 1 Year
- (4) 7 Days = 1 Week
- (6) 12 Months = 1 Year

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(+1 day or +2 days)

There are 365 or 366 days in a year.

A leap year has 366 days.



Oh, Krency! this minute-hand of the clock has completed one full rotation but this hour-hand has moved only one number. Wow, what a magic !

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Oh! Not like that. Let me explain. Count all the marks starting from number 12 to 12 drawn on the clock. Tell me, how many marks are there ?

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What do you say :

Understood?

and 30 minutes. Minute-hand is on third marks ahead of six, so 30 + 3 = 33 minutes. Hence, it is 1 O'clock and 33 minutes.

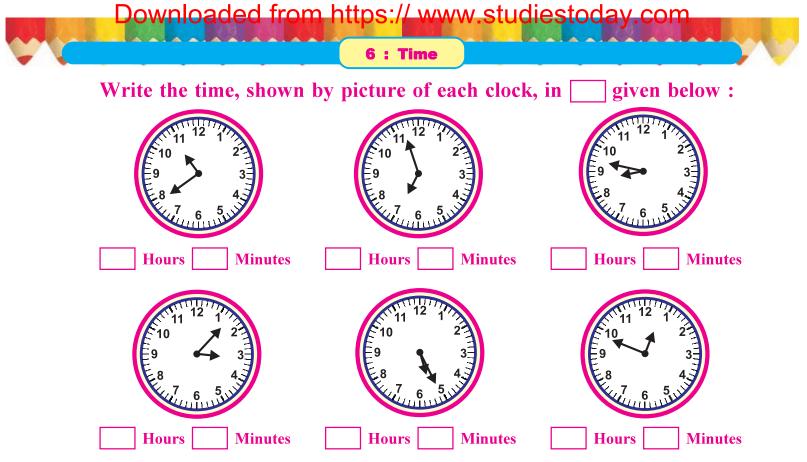
- (1) When minute-hand moves 60 marks, how many marks the hour-hand move ?
- (2) How many marks has the minute-hand to move for the hour-hand to move one mark ?
- (3) The hour-hand is on 9:00. When the hour-hand moves from 9:00 to 10:00, where does the minute hand reach ?

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• Activity 5 :

Help Daksh to convert hours into minutes and vice-versa :

| Hours | Minutes |
|--------------------|------------------------------------|
| 1 hour | 60 minutes |
| 2 hours | minutes |
| hours | $60 \times 3 = 180$ minutes |
| 4 hours | $60 \times 4 = \dots \min$ minutes |
| 5 hours | minutes |
| 9 hours | minutes |
| 1 hour 10 minutes | $60 \times 1 + 10 = 70$ minutes |
| 3 hours 20 minutes | × + = minutes |
| 2 hours 40 minutes | × + = minutes |
| 5 hours 15 minutes | × + = minutes |

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6 : Time

Practice 1

1. Answer the following questions :

- (1) Convert 90 minutes into hour and minutes.
- (2) Convert 2 hours and 30 minutes into minutes.
- (3) For how many minutes does the prayer assembly of your school last?
- (4) How many minutes does the long recess of your school have ?
- (5) It takes half an hour for Daksh to reach railway station from his home, it means he takes minutes to reach.

2. Answer the following questions :

- (1) 160 minutes = \dots hours \dots minutes
- (2) $210 \text{ minutes} = \dots \text{ hours} \dots \text{ minutes}$
- (3) $255 \text{ minutes} = \dots \text{ hours} \dots \text{ minutes}$
- (4) 3 hours 20 minutes = \dots minutes
- (5) 5 hours 40 minutes = \dots minutes
- (6) 2 hours 30 minutes = \dots minutes

Activity 6 :

Read the bus timetable and write the answers in the given table :



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6 : Time

| | Departure | Time to | Dura | ation | Duration | |
|-------------------------|-----------|---------|------|-------|-----------|--|
| Name of the bus | Time | reach | Hr. | Min. | (minutes) | |
| Ahmedabad to Junagadh | 8:00 | 14:00 | 6 | 00 | 360 | |
| Ahmedabad to Surat | 7:00 | 12:00 | | | | |
| Ahmedabad to Vadodara | 9:00 | 11:10 | | | | |
| Ahmedabad to Khedbrahma | 13:00 | 18:50 | | | | |
| Ahmedabad to Vijapur | 12:00 | 13:30 | | | | |
| Ahmedabad to Bhuj | 10:00 | 19:30 | | | | |
| Ahmedabad to Palanpur | 12:30 | 18:30 | | | | |
| Ahmedabad to Jamnagar | 10:30 | 20:30 | | | | |

Write the answers of the following by oral calculations :

| (1) | Add : 1 | hour | 10 | minutes | and | 2 | hours | 30 | minutes | • | |
|-----|---------|-------|----|---------|-----|---|-------|----|---------|---|--|
| (2) | Add:2 | hours | 25 | minutes | and | 3 | hours | 20 | minutes | • | |
| (3) | Add : 5 | hours | 20 | minutes | and | 2 | hours | 30 | minutes | • | |

• Activity 7 : Match the following :

| | Clock | Digital clock | Answers |
|------|---------|------------------------|---------|
| A | | | A : |
| В | | | B : |
| С | | | C : |
| D | | (4) [10:00] | D : |
| E | | (5) <mark>04:07</mark> | E : |
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| | | | |

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Std. 4