



Orient BlackSwan



**NEP**  
Compliant  
inside

# Inspired Maths

For the  
New CISCE Curriculum



WITH  
APP

3

## Inspired Maths

has been developed in accordance with

- ◆ the pioneering and exciting endeavours and initiatives for the effective teaching and learning of mathematics
- ◆ the need for students to develop the skills of problem solving and generating better algorithms, all directed towards developing the right attitude and approach to solving problems in a systematic manner
- ◆ sound pedagogical practices that enable students to learn effectively and apply their learning
- ◆ the needs of the teacher in the classroom

## Students' Textbook

- ◆ complete syllabus coverage
- ◆ carefully graded text
- ◆ appropriate figures and images
- ◆ ample rigour to learn, understand and apply concepts and skills

## Let's Learn

### ◆ Text and Exercises

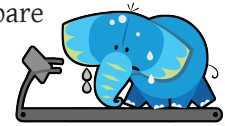
#### Learning Outcomes



- ◆ encourage students to evaluate their progress and take responsibility for their learning

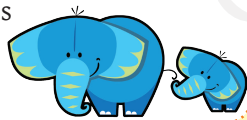
#### Warm Up

- ◆ **Activities** facilitate quick learning and easy understanding of new concepts
- ◆ **Recall exercises** help students recall concepts learnt and prepare for new learning



#### Guided Learning

- ◆ step-by-step approach consolidating each concept with solved and semi-solved exercises for guided learning



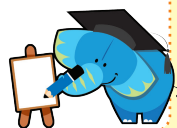
#### Activities

- ◆ extensively used to develop concepts, enhance skills and application



#### Variety of Exercises

- ◆ concept-based, calculation skill-based and application-based exercises



#### Common Mistakes

- ◆ students discover commonly committed mistakes on their own



## Teachers' Resource Pack

- ◆ lesson plans for all lessons
- ◆ enrichment activities for teaching
- ◆ worksheets with answers for all lessons
- ◆ question bank with answers for all lessons
- ◆ assessment papers

## Teachers' Smart Book

- exciting and interactive with:
- ◆ embedded questions
  - ◆ animations
  - ◆ games
  - ◆ presentations
  - ◆ worksheets
  - ◆ question paper generator

## Students' App

- ◆ more practice for students of classes 3–8

## Website

- ◆ a portal dedicated to the series with free access for teachers
- [www.inspiredmaths.com](http://www.inspiredmaths.com)

## Workouts

### Let's Apply

#### WORKOUT 1 (Worksheet for concepts and calculation skills)

##### Concept-based and Calculation skill-based exercises

- ◆ to master concepts and calculation skills



##### Mental Maths

- ◆ to develop quick calculation skills



#### WORKOUT 2 (Worksheet for higher skills)

##### Multiple Choice Questions

- ◆ provide feedback
- ◆ contribute to self-learning



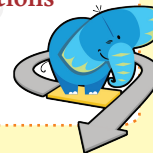
##### Problem Solving

- ◆ improve students' analytical and problem-solving skills



##### Cross-curricular Questions

- ◆ help apply maths to various subjects



##### Life Skills

- ◆ help students gain self-management, communication, decision making and critical thinking skills



##### Projects and Fun activities

- ◆ help students apply what they have learnt to real life and also have some fun



##### Our Heritage

- ◆ includes Vedic maths and yoga



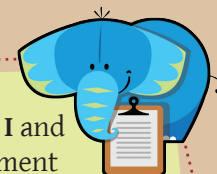
##### Values

- ◆ students understand values like honesty, sharing, ethical behaviour and so on



## Assessment

In addition to the **variety of exercises** in the lesson and in the **Workout I** and **Workout II** sections, there are four assessment papers for regular assessment



# Contents

<b>1. 4-Digit Numbers</b>	<b>1</b>
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Learning Outcomes; Warm up  
4-Digit numbers; Counting in thousands; Forming 4-digit numbers; Numbers on the abacus; Place value; Face value; Expanded form; Ordering of numbers; Forming greatest and smallest numbers; Successor and predecessor

**Workout 1** (understand and calculate)

**Workout 2** (think and apply)

<b>2. Addition of 3-Digit Numbers</b>	<b>24</b>
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Learning Outcomes; Warm up  
Using the abacus to add; 3-Digit addition with regrouping of ones; 3-Digit addition with regrouping of tens; Adding 2-digit numbers with 3-digit answer; 3-Digit addition with regrouping of ones and tens; Addition of three numbers; Make your own story sums; Estimating sums

**Workout 1** (understand and calculate)

**Workout 2** (think and apply)

<b>3. Subtraction of 3-Digit Numbers</b>	<b>38</b>
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Learning Outcomes; Warm up  
Using the abacus to subtract; 3-digit subtraction with regrouping of tens; 3-digit subtraction with regrouping of tens and hundreds; Subtracting 3-digit numbers with zeros; Make your own story sums; Estimating differences

**Workout 1** (understand and calculate)

**Workout 2** (think and apply)

**TEST 1 (Chapters 1 – 3)** **50**

<b>4. Addition and Subtraction of Money</b>	<b>51</b>
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Learning Outcomes; Warm up  
Changing money; Adding money; Subtracting money; Writing rupees and paise; Shopping; Bills

**Workout 1** (understand and calculate)



	<b>Workout 2</b> (think and apply)	
<b>5.</b>	<b>Multiplication</b>	<b>64</b>
	Learning Outcomes; Warm up Multiplication tables 2 – 5; Tables 2 – 5 by skip counting; Multiplication tables 6 – 10; Order property of multiplication; Zero property of multiplication; Vertical multiplication; Multiplication of a 2-digit number by a 1-digit number without regrouping; Multiplication with regrouping of ones; Multiplication with regrouping of tens; Multiplication with regrouping of tens and ones; Estimation of product of a 2-digit number and a 1-digit number; Lattice method of multiplication	
	<b>Workout 1</b> (understand and calculate)	
	<b>Workout 2</b> (think and apply)	
	<b>TEST 2 (Chapters 4 – 5)</b>	<b>94</b>
<b>6.</b>	<b>Division</b>	<b>95</b>
	Learning Outcomes; Warm up Division symbol; Finding number of groups; Division as repeated subtraction; Multiplication and division; Division using tables; Properties of division	
	<b>Workout 1</b> (understand and calculate)	
	<b>Workout 2</b> (think and apply)	
<b>7.</b>	<b>Geometry</b>	<b>109</b>
	Learning Outcomes; Warm up Recall— plane figures; Straight and curved lines; Recall— faces, edges and corners in solid shapes; Properties of solid shapes; Tangrams; Tessellations (or tilings); Map reading	
	<b>Workout 1</b> (understand and calculate)	
	<b>Workout 2</b> (think and apply)	
<b>8.</b>	<b>Measurement</b>	<b>128</b>
	Learning Outcomes; Warm up Measurement of length; Estimating lengths and distances; Measurement of mass (or weight); Volume and capacity	
	<b>Workout 1</b> (understand and calculate)	
	<b>Workout 2</b> (think and apply)	
	<b>TEST 3 (Chapters 6 – 8)</b>	<b>146</b>

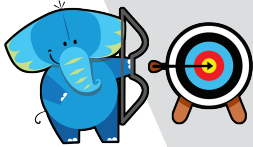


<b>9. Measurement of Time</b>	<b>147</b>
Learning Outcomes; Warm up Hours and minutes; Reading time in half hour; Reading time in quarter hour; a.m. and p.m.; The 24-hour clock; Conversion of time; Months of the year; Days of the week; Calendar	
<b>Workout 1</b> (understand and calculate)	
<b>Workout 2</b> (think and apply)	
<b>10. Data Handling</b>	<b>163</b>
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<b>Workout</b> (understand, think and apply)	
<b>11. Patterns</b>	<b>173</b>
Learning Outcomes; Warm up Patterns; Making patterns; Number patterns	
<b>Workout</b> (understand, think and apply)	
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# 4-Digit Numbers

## Learning Outcomes

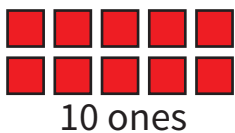


At the end of this lesson, students will be able to:

- read and write 4-digit numbers using place values.
- express 4-digit numbers in expanded form.
- compare two 4-digit numbers and say which is greater/smaller.
- form greatest and smallest numbers with given digits, with and without repetition.



### ❖ Recall—3-digit numbers



10 ones

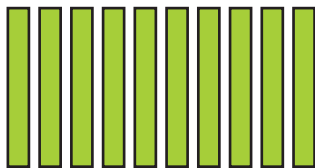
are the same as



1 ten

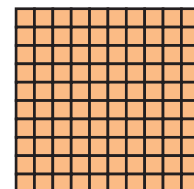
10 ones make 1 ten or 1 ten = 10 ones

Let us represent 1 ten as



10 tens

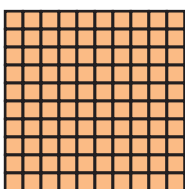
are the same as



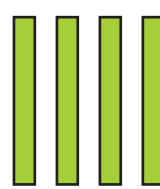
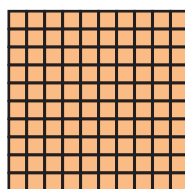
1 hundred

10 tens = 1 hundred

Fill in the blanks.



\_\_\_\_\_ hundreds



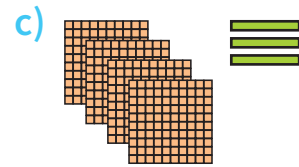
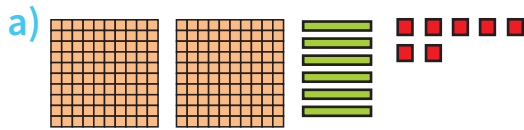
\_\_\_\_\_ tens



\_\_\_\_\_ ones = \_\_\_\_\_

## Exercise 1.1

### 1. Write the numbers.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### 2. Fill in the blanks and write the number names.

a)  $501 = \underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  one = \_\_\_\_\_

b)  $946 = \underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones = \_\_\_\_\_

c)  $333 = \underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones = \_\_\_\_\_

d)  $240 = \underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones = \_\_\_\_\_

### 3. Fill in the blanks and write the numbers.

a) Four hundred nine =  $\underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones =

b) Three hundred fifty =  $\underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones =

c) Nine hundred forty-nine =  $\underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones =

d) Five hundred fifty-four =  $\underline{\quad}$  hundreds +  $\underline{\quad}$  tens +  $\underline{\quad}$  ones =

### 4. Write in the short form.

a)  $500 + 60 + 7 = \underline{\quad}$

b)  $800 + 90 + 0 = \underline{\quad}$

c)  $900 + 90 + 9 = \underline{\quad}$

d)  $6 \text{ hundreds} + 6 \text{ tens} + 3 \text{ ones} = \underline{\quad}$

e)  $6 \text{ hundreds} + 6 \text{ ones} = \underline{\quad}$

f)  $9 \text{ hundreds} + 1 \text{ ten} + 0 \text{ ones} = \underline{\quad}$

### 5. Write in the expanded form.

a)  $638 = \boxed{\quad + \quad + \quad}$

b)  $840 = \boxed{\quad + \quad + \quad}$

c)  $745 = \boxed{\quad + \quad + \quad}$

d)  $805 = \boxed{\quad + \quad + \quad}$

### 6. Fill in the symbol $<$ , $>$ or $=$ .

a)  $314 \bigcirc 448$

b)  $318 \bigcirc 381$

c)  $500 \bigcirc 518$

d)  $901 \bigcirc 910$

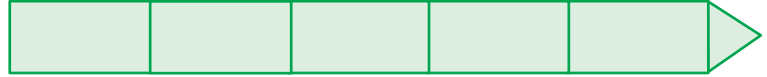
e)  $456 \bigcirc 654$

f)  $949 \bigcirc 949$

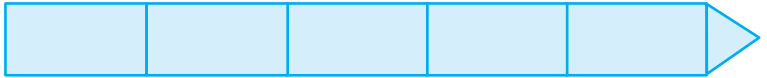


7. Rewrite in ascending order (smallest to largest).

a) 342, 43, 423, 234, 99



b) 245, 345, 500, 542, 88



c) 548, 753, 90, 900, 89

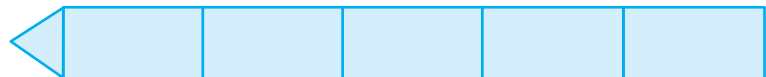


8. Rewrite in descending order (largest to smallest).

a) 199, 299, 99, 991, 999



b) 99, 199, 100, 109, 901



c) 788, 865, 901, 109, 87



❖ 4-Digit numbers

Manian has a big collection of stickers.  
He has 999 stickers.

His friend Manisha gave him 1 more sticker.

Manian now has  $999 + 1$  stickers.

999 is 9 hundreds + 9 tens + 9 ones

So,  $999 + 1 = 9 \text{ hundreds} + 9 \text{ tens} + 9 \text{ ones} + 1 \text{ one}$

$= 9 \text{ hundreds} + 9 \text{ tens} + 10 \text{ ones}$

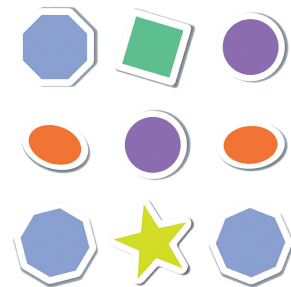
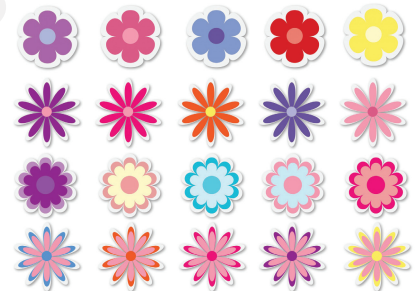
$= 9 \text{ hundreds} + 9 \text{ tens} + 1 \text{ ten}$

$= 9 \text{ hundreds} + 10 \text{ tens}$

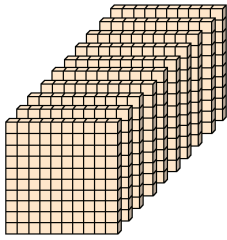
$= 9 \text{ hundreds} + 1 \text{ hundred}$

$= 10 \text{ hundreds}$

10 hundreds together make **1 thousand**.

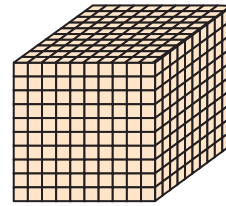


If we stack 10 hundreds together we get 1 thousand.



10 hundreds



are the same as  
→



1 thousand

$$10 \text{ hundreds} = 1 \text{ thousand}$$

One thousand is a 4-digit number. We write one thousand as 1000.

Let us represent 1 hundred as  and 1 thousand as .

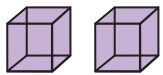
### ❖ Counting in thousands

Fill in the blanks.



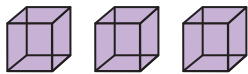
1 thousand

1000



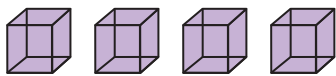
2 thousands

2000



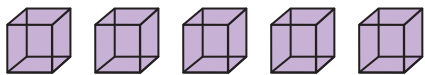
3 thousands

3000



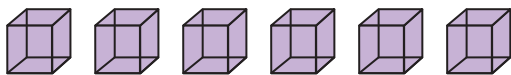
4 thousands

\_\_\_\_\_



5 thousands

\_\_\_\_\_



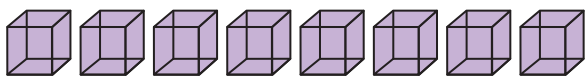
6 thousands

\_\_\_\_\_



7 thousands

\_\_\_\_\_



8 thousands

\_\_\_\_\_



9 thousands

\_\_\_\_\_

## ❖ Forming 4-digit numbers

Manian has one thousand stickers. His mother gave him 1 more sticker.

He now has  $1000 + 1 = 1001$  stickers.

The number name for 1001 is **one thousand one**.

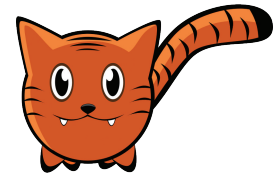
The number name for 1010 is one thousand ten.

The number name for 1025 is \_\_\_\_\_.

The number name for 1101 is one thousand one hundred one.

The number name for 1102 is \_\_\_\_\_.

You can form numbers from 1000 till 9999, just as you did from 100 to 999.



Look at this number.



It is read as two thousand two hundred thirty-one.

### ACTIVITY 1



**For the teacher:** The representations for ones, tens, hundreds and thousands can either be made with cardboard or bought from maths equipment suppliers. Let children use them first to represent the numbers in this exercise, and then do them on paper.

**Exercise 1.2: 1. Write the numbers and number names.**

a) =  = \_\_\_\_\_

b) =  = \_\_\_\_\_

c) =  = \_\_\_\_\_

d) =  = \_\_\_\_\_

2. Represent the following numbers using , ,  and 

a) 2134

b) 5243

c) 1250

d) 2104

e) 3026

f) 2300

g) 2000

h) 1050

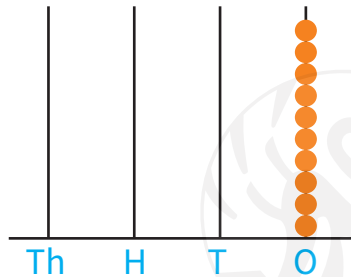
## ❖ Numbers on the abacus

### ACTIVITY 2

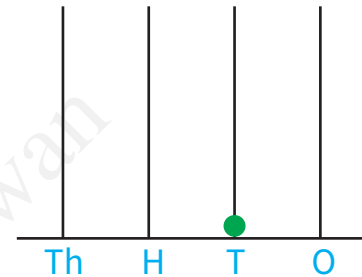


**For the teacher:** Let children represent the numbers on pages 5 and 6 and in Exercise 1.3 on an actual abacus, before doing the exercises on paper. This will help clear their concepts.

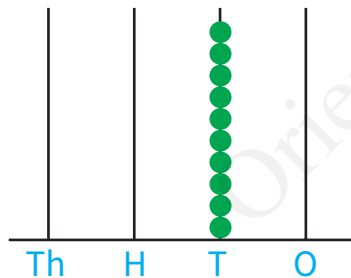
10 ones make  
one ten



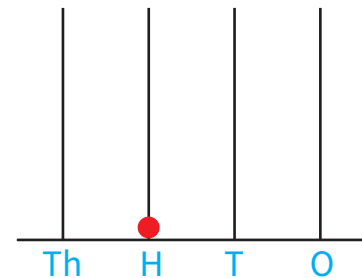
is the same as



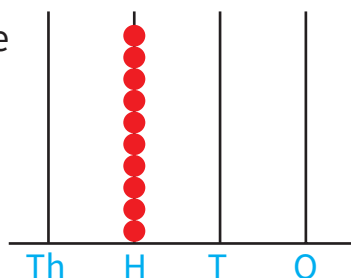
10 tens make  
one hundred



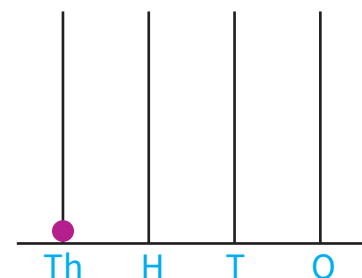
is the same as



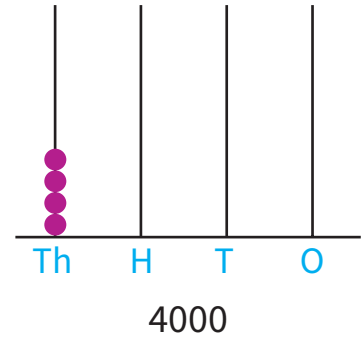
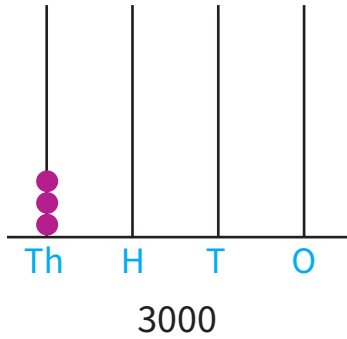
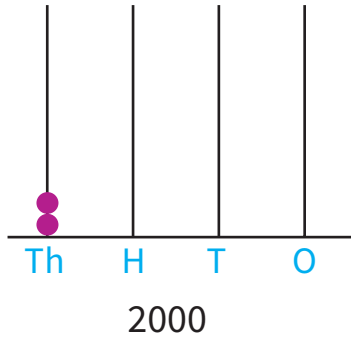
10 hundreds make  
one thousand



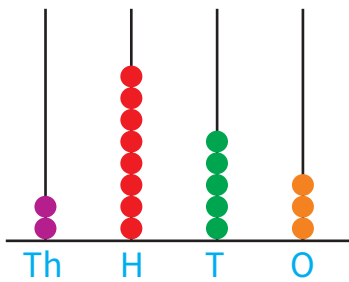
is the same as



On the abacus 2000, 3000 and 4000 are shown as :



Let us now show the number 2853 on the abacus.



In 2853, there is 3 in the ones place. So we put 3 beads in the ones column.

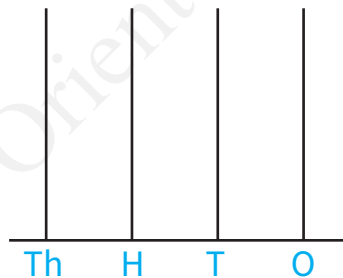
2853 has 5 in the tens place. We put 5 beads in the tens column.

The digit in the hundreds place is 8. So the hundreds column has 8 beads.

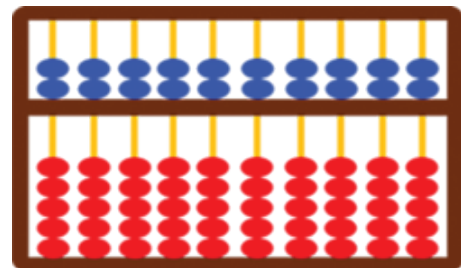
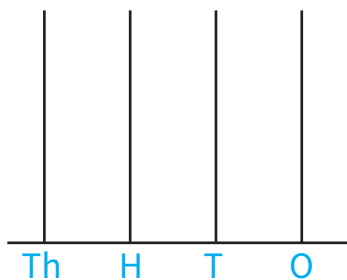
There are 2 thousands in 2853. So we put      beads in the thousands column.

How will you show the number 3017? In 3017 there are:

- \_\_\_\_\_ ones
- \_\_\_\_\_ tens
- \_\_\_\_\_ hundreds
- \_\_\_\_\_ thousands



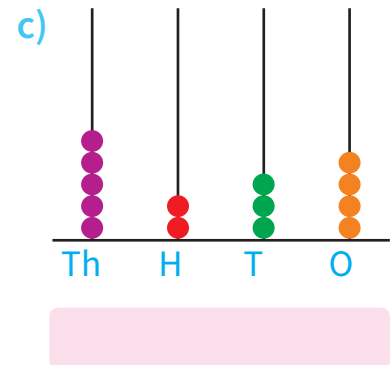
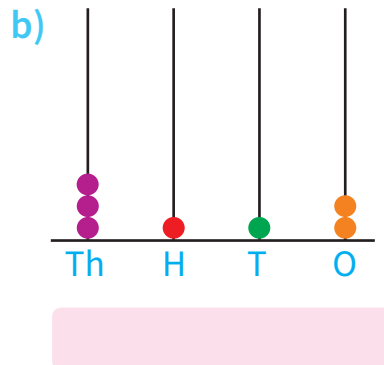
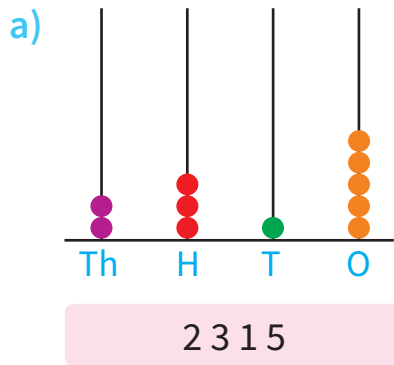
Now show the number 5625 on the abacus.



This is a Chinese abacus. It is still used as a calculating tool.

### Exercise 1.3

1. Read the abacus and write the numbers and number names as shown in the example.

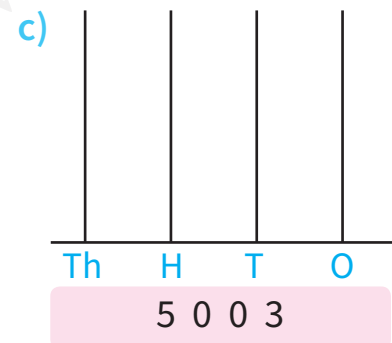
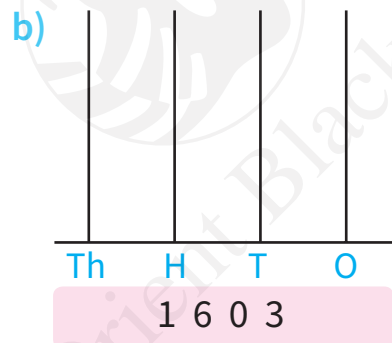
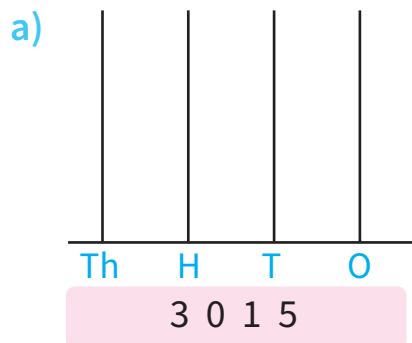


a) Two thousand three hundred fifteen

b) \_\_\_\_\_

c) \_\_\_\_\_

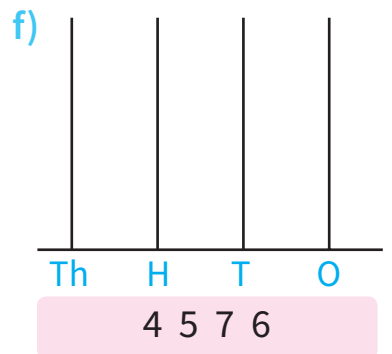
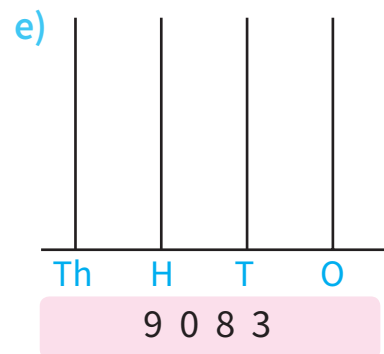
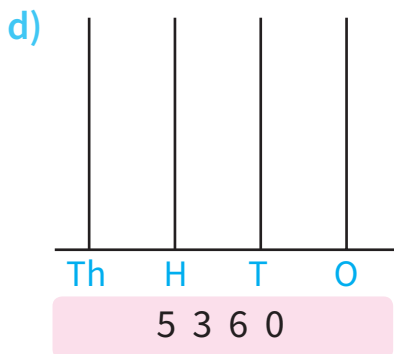
2. Show the numbers on the abacus and write their number names.



a) \_\_\_\_\_

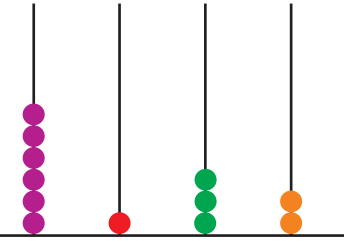
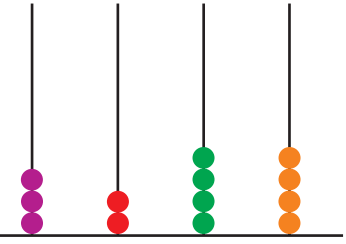
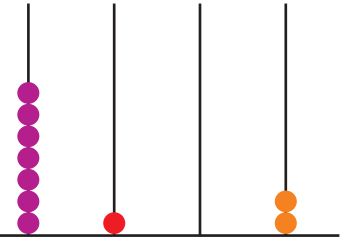
b) \_\_\_\_\_

c) \_\_\_\_\_



- d) \_\_\_\_\_  
 e) \_\_\_\_\_  
 f) \_\_\_\_\_

3. Read the abacus and write the numbers and their number names.

a)  b)  c) 

Th H T O      Th H T O      Th H T O

\_\_\_\_\_

- a) \_\_\_\_\_  
 b) \_\_\_\_\_  
 c) \_\_\_\_\_

**Smallest and largest 4-digit numbers**

Study the pattern and fill in the blanks.

- Adding 1 to 9 we get 10.  $1 + 9 = 10$ . Therefore 9 is the largest 1-digit number and 10 is the smallest 2-digit number.
- Adding 1 to 99 we get 100.  $1 + 99 = 100$ . Therefore 99 is the largest 2-digit number and \_\_\_\_\_ is the smallest 3-digit number.
- Adding 1 to 999 we get 1000.  $1 + 999 = 1000$ . Therefore \_\_\_\_\_ is the largest 3-digit number and \_\_\_\_\_ is the smallest 4-digit number.
- The largest 4-digit number is \_\_\_\_\_.

**Exercise 1.4**

1. Break up the number as shown.

- a)  $8003 = 8 \text{ thousands } 0 \text{ hundreds } 0 \text{ tens } 3 \text{ ones}$   
 b)  $7928 = \underline{\hspace{1cm}} \text{ thousands } \underline{\hspace{1cm}} \text{ hundreds } \underline{\hspace{1cm}} \text{ tens } \underline{\hspace{1cm}} \text{ ones}$   
 c)  $1030 = \underline{\hspace{1cm}} \text{ thousand } \underline{\hspace{1cm}} \text{ hundreds } \underline{\hspace{1cm}} \text{ tens } \underline{\hspace{1cm}} \text{ ones}$



d) 2179 = \_\_\_\_\_ thousands \_\_\_\_\_ hundred \_\_\_\_\_ tens \_\_\_\_\_ ones

e) 4325 = \_\_\_\_\_ thousands \_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones

2. Write the number for the number name as shown.

a) Three thousand four hundred twenty-four

b) Eight thousand five hundred eighty-seven

c) Seven thousand one hundred seventy

d) Three thousand five hundred twelve

e) One thousand seven hundred twenty-one

f) Two thousand two hundred three

g) Five thousand six hundred three

h) Six thousand four hundred fifty-four

i) Nine thousand forty-eight

j) Eight thousand three hundred twenty-nine

Th	H	T	O
3	4	2	4

3. Write the number name.

a) 3789

b) 6501

c) 4283

d) 9192

e) 8308

f) 4230

g) 7424

h) 1068

i) 8935

j) 2698

4. Counting in twos, write the next 5 numbers.

a) 3292

b) 4058

c) 5168

5. Counting in tens, write the next 5 numbers.

a) 4320

b) 3810

c) 7230





6. Counting in hundreds, write the next 5 numbers.

a) 7435

b) 5319

c) 3012

7. Counting in thousands, write the next 5 numbers.

a) 3826

b) 2032

c) 4444

### ❖ Place value

Look at the place value chart.

Thousands Th	Hundreds H	Tens T	Ones O
1000	100	10	1

Consider the numbers 1892 and 9128. Arrange them in the place value chart.

	Thousands Th	Hundreds H	Tens T	Ones O
	1000	100	10	1
1892 →	1	8	9	2
9128 →	9	1	2	8

Consider the number **1 8 9 2**

**2** is in the ones place.  
Its place value is 2 ones = 2

**9** is in the tens place.  
Its place value is 9 tens = 90

**8** is in the \_\_\_\_\_ place.  
Its place value is 8 hundreds = 800

**1** is in the \_\_\_\_\_ place.  
Its place value is 1 \_\_\_\_\_ = \_\_\_\_\_

Now, consider the number **9128** → The place value of **8** is **8**.

→ The place value of **2** is \_\_\_\_.

→ The place value of **1** is **100**.

→ The place value of **9** is \_\_\_\_.

### ❖ Face value

The face value of a digit is the value of the number itself. It remains the same in all places.

In 9128, the face value of:

9 is 9

1 is 1

2 is 2

8 is 8

### ❖ Expanded form

The numbers 1892 and 9128 are formed by the digits 1, 2, 8 and 9. But these two numbers are different. Do you know why?

They are different because the digits are in different places.

So, the place value of each digit in the two cases is different.

The expanded form of 1892 is:  $1000 + 800 + 90 + 2$

The expanded form of 9128 is:  $9000 + 100 + 20 + 8$

1892 or 9128 are the short or standard forms of the numbers.

## ACTIVITY 3



**For the teacher:** Let children work in groups to make numbers using place-value cards.

1	2	-----	9
10	20	-----	90
100	200	-----	900
1000	2000	-----	9000

This will further strengthen the concept of place-values.

Use the place-value cards to make these numbers.

a) 5846

b) 2387

c) 5400

d) 6201

## Exercise 1.5

1. Arrange the numbers in the place value chart.  
Write their expanded forms.

	Thousands 1000	Hundreds 100	Tens 10	Ones 1	Expanded form
4538					
3085					
5098					
6137					
9562					

2. Write in figures the place value of the digit in red.

- a) 364**2**      b) 6078      c) 568**7**      d) 45**3**5      e) 1079  
f) 41**8**3      g) 877**7**      h) 55**0**0      i) 967**9**      j) 2304

3. Write in the expanded form.

- a) 3819      b) 5983      c) 7812      d) 6234      e) 4609  
f) 5962      g) 1011      h) 9009      i) 8019      j) 7433

4. Write in the short form.

- a)  $4000 + 300 + 80 + 8$  : \_\_\_\_\_      b)  $6000 + 400 + 30 + 9$  : \_\_\_\_\_  
c)  $7000 + 700 + 7$  : \_\_\_\_\_      d)  $9000 + 90 + 9$  : \_\_\_\_\_  
e)  $1000 + 100 + 10 + 1$  : \_\_\_\_\_      f)  $5000 + 700 + 80$  : \_\_\_\_\_  
g)  $3000 + 3$  : \_\_\_\_\_      h)  $5000 + 100$  : \_\_\_\_\_  
i)  $2000 + 20 + 3$  : \_\_\_\_\_      j)  $4000 + 300 + 20 + 1$  : \_\_\_\_\_

### ❖ Ordering of numbers

How can you find out if a number is greater than another? For that you have to compare the numbers.

#### Example 1: Compare 3892 and 991.

If you place the numbers one below the other, it becomes easier to compare them.

3892
991

3892 has four digits. 991 has only three digits. Therefore,  $3892 > 991$ .



### Example 2: Compare 8326 and 5810.

Both numbers have 4 digits.

Compare the digit in the thousands place.

Since  $8 > 5$ , therefore  $8326 > 5810$

8 3 2 6

5 8 1 0

### Example 3: Compare 8326 and 8213.

The digits in the thousands place are the same.

Compare the digits in the hundreds place.

Since  $3 > 2$ , therefore  $8326 > 8213$

8 3 2 6

8 2 1 3

### Example 4: Compare 8326 and 8385.

The digits in the thousands and hundreds places are the same.

Compare the digits in the tens place.

Since  $2 < 8$ , therefore  $8326 < 8385$

8 3 2 6

8 3 8 5

### Example 5: Arrange in descending order:

387 4062 4426 5123

Arrange the numbers one below the other.

387 has 3 digits. It is the smallest number. Write it last.

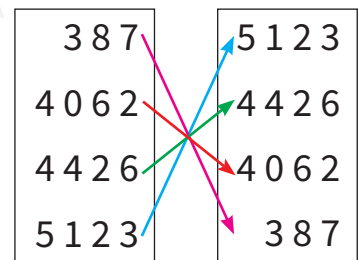
Look at the thousands digits.

5123 has the greatest thousands digit. It is the greatest number. Write it first.

Both 4426 and 4062 have the same thousands digit. Compare their hundreds digits.

Since  $4 > 0$ , therefore 4426 is bigger. Write it after 5123. Next write 4062.

The numbers in descending order are: 5123, 4426, 4062, 387



## Exercise 1.6

### 1. Fill in the correct symbol $<$ or $>$ .

a)  $3149$  ○  $3448$

b)  $4807$  ○  $4078$

c)  $5308$  ○  $2441$

d)  $4705$  ○  $5681$

e)  $6817$  ○  $2828$

f)  $4715$  ○  $5078$

g)  $7286$  ○  $7305$

h)  $8391$  ○  $8395$

i)  $4005$  ○  $5004$

2. Put ✓ on the greatest number and ✗ on the smallest number.

a) 823 1011 9990 679

b) 1386 1066 1145 1277

c) 7451 7476 7429 7420

d) 89 1001 875 888

e) 9305 953 1999 9315

f) 7425 2574 5247 754

3. Arrange in decreasing order of numbers (descending order)

a) 9325, 9965, 3259, 5239



b) 825, 5820, 2085, 8025



c) 4050, 5004, 4005, 4500



d) 7186, 7786, 789, 798



4. Arrange in increasing order of numbers (ascending order)

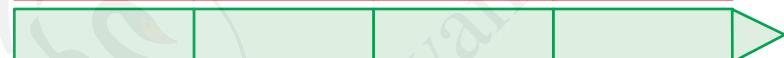
a) 6393, 9236, 3692, 2963



b) 4892, 9284, 2849, 9824



c) 2300, 2003, 2030, 3002



d) 1702, 1699, 1969, 1996



## ❖ Forming greatest and smallest numbers

### Without repeating digits

#### ACTIVITY 4



You are given these number cards: 9 1 2 8

You can make many 4-digit numbers by arranging them in different ways.

Some examples are: 1 2 9 8    2 1 8 9    8 1 2 9

See how many more you can make.

Think! How will you make the greatest number from these digits?

Simple! Arrange the digits in descending order: 9 8 2 1

How will you make the smallest number?

Simple: Arrange the digits in ascending order: 1 2 8 9

**Example 1:** Form the greatest and smallest 4-digit numbers using the digits 9, 4, 6 and 2.

To form the greatest number, arrange the digits in descending order.

The greatest 4-digit number is: **9642**

To form the smallest number, arrange the digits in ascending order.

The smallest 4-digit number is: **2469**

**Example 2:** Arrange the digits 5, 7, 2 and 0 to form the greatest and smallest 4-digit numbers.

Greatest number: **7520**

Smallest number: Arranging in ascending order, the number is 0257.

But this is 257, which is a 3-digit number.

So, you cannot put 0 in the thousands place. Therefore 0 will come in the hundreds place.

The smallest 4-digit number is **2057**.

### With repeating digits

#### ACTIVITY 5



You are given two sets of number cards for the digits 1, 5 and 6.

So, you have the number cards: **1 1 5 5 6 6**

Make the greatest 4-digit number with these digits.

- First arrange the digits 1, 5, 6 in descending order: **6 5 1**
- Next **repeat the largest digit** to make a 4-digit number. Therefore, the greatest number is: **6 6 5 1**

To make the smallest 4-digit number:

- Arrange the digits in ascending order **1 5 6**
- **Repeat the smallest digit** to make a 4-digit number. This gives the smallest number: **1 1 5 6**

**Example 3:** Form the greatest and smallest 4-digit numbers using the digits 3, 4, 5 by repeating digits as required.

## Greatest number

- Arrange the digits in descending order: **543**
- Repeat the largest digit as many times as necessary to make a 4-digit number: **5543**

## Smallest number

- Arrange the digits in ascending order: **345**
- Repeat the smallest digit as many times as necessary to make a 4-digit number: **3345**

**Example 4:** Form the greatest and smallest numbers using the digits 5, 0 and 2, by repeating digits as required.

Greatest number: **5520**

Smallest number: You cannot begin with 0. So arrange the digits as: **205**

Now repeat the smallest digit 0 to make the smallest 4-digit number: **2005**

## Exercise 1.7

1. Make a greatest and smallest 4-digit numbers using the following digits.

	Greatest	Smallest
a) 3, 9, 8, 4	<input type="text"/>	<input type="text"/>
b) 6, 0, 5, 9	<input type="text"/>	<input type="text"/>
c) 9, 8, 0, 3	<input type="text"/>	<input type="text"/>
d) 2, 5, 4, 6	<input type="text"/>	<input type="text"/>
e) 4, 7, 1, 6	<input type="text"/>	<input type="text"/>
f) 1, 8, 3, 5	<input type="text"/>	<input type="text"/>
g) 6, 0, 9, 0	<input type="text"/>	<input type="text"/>
h) 7, 9, 8, 0	<input type="text"/>	<input type="text"/>

2. Make the greatest and smallest 4-digit numbers using the given digits, by repeating digits as required.

a) 3, 6, 2



b) 7, 8, 9



c) 1, 3, 5



d) 5, 0, 7



e) 3, 8



f) 4, 7



g) 0, 1, 2



h) 9, 1, 0



### ❖ Successor and predecessor

The number that comes just after a given number is called its **successor**. 'Successor' is therefore a different way of saying 'what comes next'.

Number	Successor	Number	Successor
111	112	1009	_____
999	1000	1119	_____
3019	3020	1199	_____

Add 1 to a number to get its successor.

The number that comes just before a given number is called its **predecessor**.

Number	Predecessor	Number	Predecessor
7	6	201	_____
20	19	1010	_____
5000	4999	3100	_____

Subtract 1 from a number to get its predecessor.



## Exercise 1.8

1. Write the successor of each of the following:

- a) 3129      b) 7034      c) 4119      d) 5099      e) 6289  
f) 6399      g) 2999      h) 1009      i) 3089      j) 8999

2. Write the predecessor of each of the following:

- a) 1000      b) 3260      c) 1099      d) 4190      e) 6001  
f) 9970      g) 5000      h) 4100      i) 2900      j) 1009

### ACTIVITY 6



#### Number game

**To the teacher:** Divide the class into groups of 4 students each. Give each group a set of ten 4-digit number cards. Now ask students to take out cards according to your instructions.

For example:

Take out the cards for all numbers that:

1. have 5 in the hundreds place
2. do not have 0 or 2 in the ones place.
3. have digits less than 5 in the tens place

After each instruction check the cards taken out by each group and then mix the cards again before giving the next instruction.

The group that gets the most numbers correct is the winner.

## Exercise 1.9: Real life applications

**Example:** The price of a TV set is ₹ 8595. The price of a sofa set is ₹ 8459. Which of the two costs more?

Compare 8595 and 8459.

The digits in the thousands place are the same.

In the hundreds place,  $5 > 4$ ; therefore  $8595 > 8459$

Therefore, the TV set costs more.

8 5 9 5

8 4 5 9

1. Mala's school fee is ₹ 3056 per month and Ashok's school fee is ₹ 3075 per month. Whose school fee is more?

2. Saira and Ishan went for a walk. Saira walked 2560 steps and Ishan walked 2800 steps. Who walked more steps?

3. Akshay earns ₹ 9856 per month and Sachin earns ₹ 8956 per month. Who earns less?

4. Harinder bought a coat. The price of the coat was ₹ 1 less than ₹ 2000. What was the price of the coat?

5. Lata wants to buy a pair of shoes for ₹ 2500 and a dress for ₹ 500. She has a ₹ 2000 note with her. Does she have enough money to buy both things?

6. In a counting competition, students had to count fast for exactly 10 minutes. Whoever reached the highest count was the winner. The numbers up to which the participants counted were:

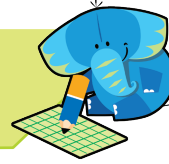
Namita: 3456      Arnab: 4011      Sunitha: 2999      Aslam: 4200

Who was the winner? Who came second?



# WORKOUT 1

understand and calculate



1. Write the number and number name.

a)  = \_\_\_\_\_

b)  = \_\_\_\_\_

2. Write the expanded form.

a)  $4803 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$       b)  $9875 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$   
 c)  $6024 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$       d)  $3333 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$

3. Write the place and face values of:

a) 4 in 2489: Place value: \_\_\_\_\_ Face value: \_\_\_\_\_  
 b) 9 in 8009: Place value: \_\_\_\_\_ Face value: \_\_\_\_\_

4. Write in the short form.

a)  $8000 + 200 + 6$ : \_\_\_\_\_      b)  $5000 + 500$ : \_\_\_\_\_

5. Fill in the correct symbol  $<$ ,  $>$  or  $=$ .

a)  $2876$  \_\_\_\_\_  $6782$       b)  $999$  \_\_\_\_\_  $1000$   
 c)  $7654$  \_\_\_\_\_  $7653$       d)  $7050$  \_\_\_\_\_  $5070$

6. Arrange in ascending order.

a) 6007 6070 6700 7600 760

b) 4768 4709 5113 8214 986

7. Arrange in descending order.

a) 2489 8211 5464 3603 894

b) 456 4506 5604 6504 4560

8. Form the greatest and smallest 4-digit numbers using the following digits, without repeating any digit.

a) 4, 9, 2, 1    Greatest: \_\_\_\_\_    Smallest: \_\_\_\_\_

b) 3, 0, 7, 8    Greatest: \_\_\_\_\_    Smallest: \_\_\_\_\_

9. Form the greatest and smallest 4-digit numbers using the following digits, by repeating digits as required.

a) 2, 9    Greatest: \_\_\_\_\_    Smallest: \_\_\_\_\_

b) 3, 0, 4    Greatest: \_\_\_\_\_    Smallest: \_\_\_\_\_

10. Solve the story sums.

a) Sumit walks 2650 steps every day.  
Sunita walks 2750 steps. Who walks more?

b) The airfare from Delhi to Mumbai is ₹ 5065. The airfare from Delhi to Chennai is ₹ 7065. From Delhi, is it cheaper to fly to Mumbai or to Chennai?

### Mental maths

11. What is:

a) 10 less than 4675? \_\_\_\_\_

b) 100 less than 8795? \_\_\_\_\_

c) 1 less than 2346? \_\_\_\_\_

d) 1000 less than 7500? \_\_\_\_\_

e) 1 more than 3456? \_\_\_\_\_

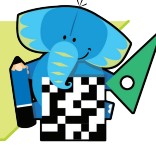
f) 10 more than 3465? \_\_\_\_\_

g) 100 more than 3465? \_\_\_\_\_

h) 1000 more than 3465? \_\_\_\_\_

## WORKOUT 2


think and apply



### MCQs

- The largest 4-digit number is:  
a) 4000                      b) 9999                      c) 9000                      d) 10000
- The place value of 6 in 5769 is:  
a) 6                              b) 60                              c) 600                              d) 6000
- The smallest 4-digit number formed by the digits 6, 0, 7, 9 is:  
a) 6079                      b) 679                              c) 9760                              d) 9067
- The face value of 5 in 5400 is:  
a) 5000                      b) 500                              c) 50                              d) 5
- The place value of 5 in 5400 is:  
a) 5000                      b) 500                              c) 50                              d) 5

### Problem solving

- I am a 4-digit number. If my digits are reversed I become a 3-digit number. What is the digit in my ones place? \_\_\_\_\_ 
- a) Which is the smallest 4-digit number in which all 4 digits are the same? \_\_\_\_\_  
b) Which is the smallest 4-digit number in which all 4 digits are different? \_\_\_\_\_

### Project

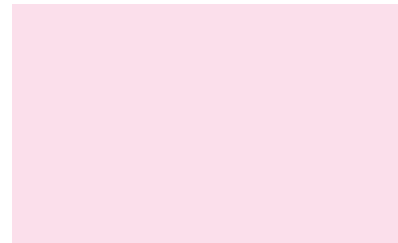
- Find the heights of these mountains in metres. Arrange them in descending order of their heights.

Mount Kanchenjunga

Mount Lhotse

Mount Everest

Mount Godwin Austen

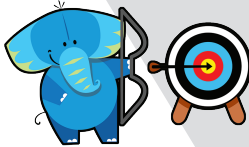


### Heritage (Vedic maths)

The system of writing numbers using 10 digits 0 – 9 was invented by ancient Indian mathematicians. The Arabs learnt the system and passed it on to other countries. It is now used all over the world. Find out what this number system is commonly known as.



## Learning Outcomes



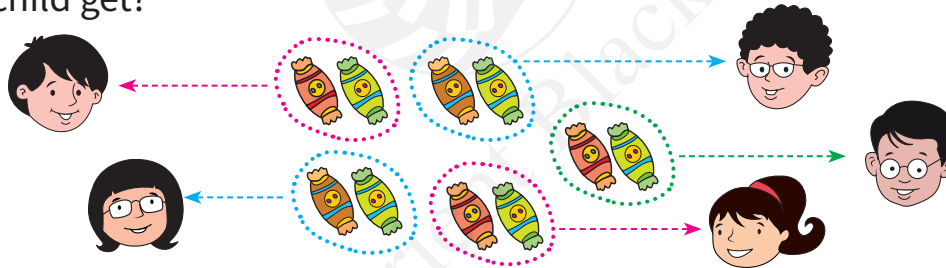
At the end of this lesson, students will be able to:

- divide by repeated subtraction.
- divide by equal sharing.
- use multiplication tables to divide.



### ❖ Recall—equal sharing

10 chocolates are shared equally between 5 children. How many chocolates does each child get?



Each child gets \_\_\_\_\_ chocolates.

Dividing into equal groups is called **division**. Division helps us to find how many in each group.

### Revision exercise

1. Divide into equal groups. Write how many in each group.

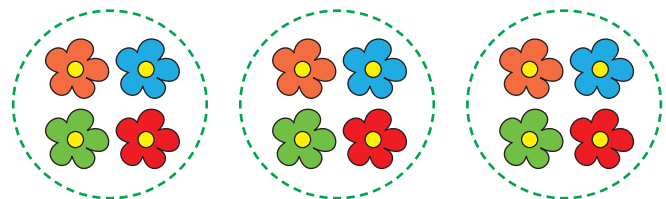
a) 12 divided by 3

Total number of flowers = \_\_\_\_\_

Number of groups = \_\_\_\_\_

Each group has \_\_\_\_\_ flowers.

12 divided by 3 equals \_\_\_\_\_



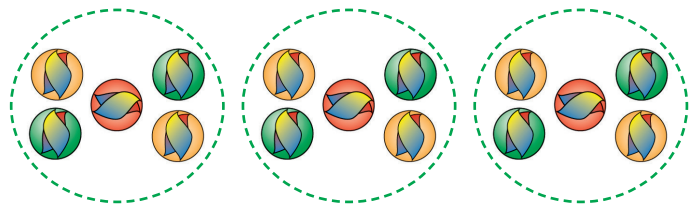
b) 15 divided by 3

Total number of marbles = \_\_\_\_\_

Number of groups = \_\_\_\_\_

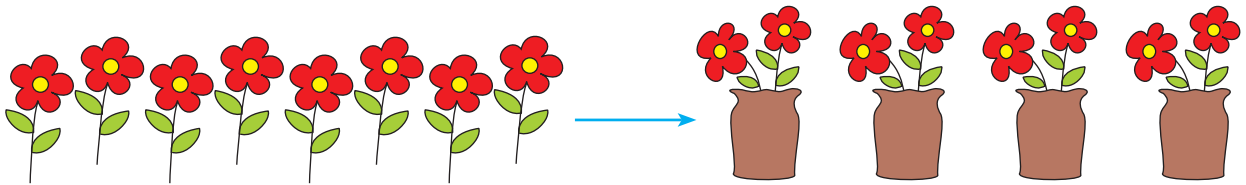
Each group has \_\_\_\_\_ marbles.

15 divided by 3 equals \_\_\_\_\_



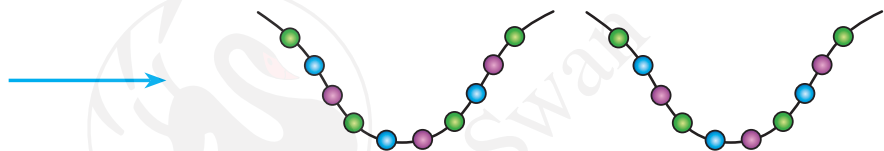
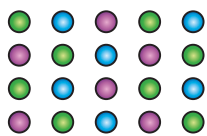
## 2. Write the division sum.

a)



\_\_\_\_\_ divided by \_\_\_\_\_ equals \_\_\_\_\_

b)



\_\_\_\_\_ divided by \_\_\_\_\_ equals \_\_\_\_\_

## ACTIVITY 1



### Dividing into equal groups

**Objective:** To develop conceptual understanding of division.

**Material required:** Concrete objects such as counters, ice-cream spoons or pencils.

#### Method:

1. Divide children into groups of 2 each. Give each group about 40 counters.
2. To divide 10 by 5, ask them to take out 10 counters.
3. Tell them to divide the counters into 5 groups. Demonstrate how this should be done—by keeping counters one at a time into the 5 groups. Ask them how many there are in each group.
4. Let them say aloud: '10 divided by 5 equals 2.'

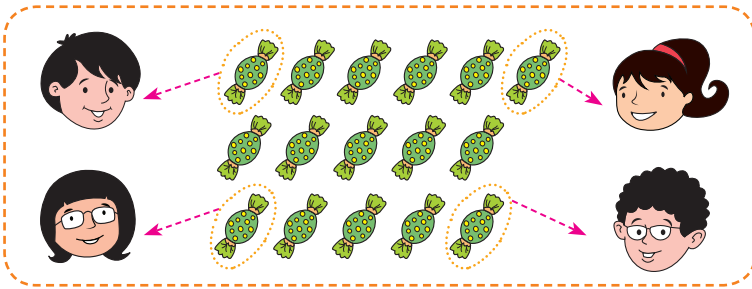
## ❖ Division symbol

You have 16 sweets. You want to divide them equally among 4 friends. How will you do this?

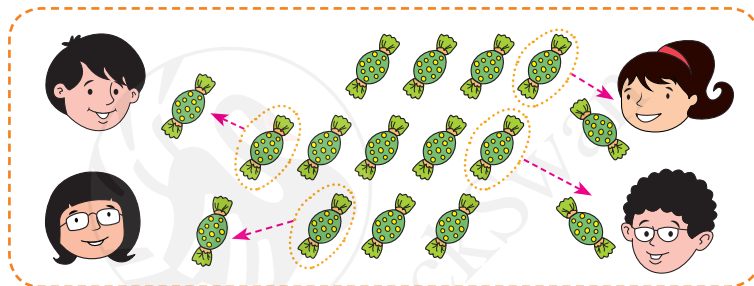
Give 1 sweet to each friend. Then give 1 more to each. Continue until no sweets are left.

How many did each friend get? \_\_\_\_\_

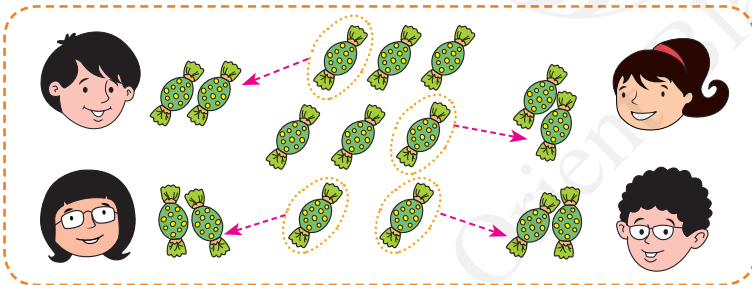
1.



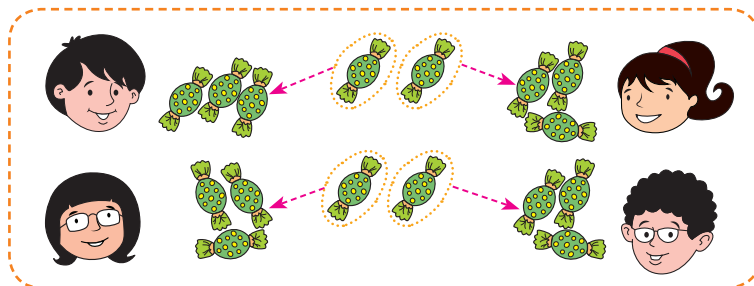
2.



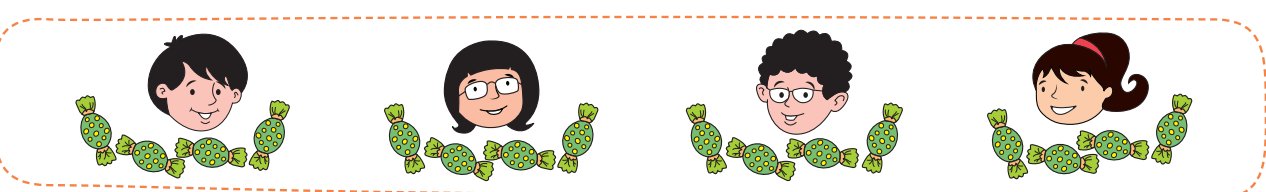
3.



4.



5.



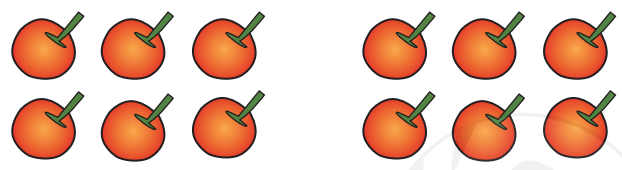


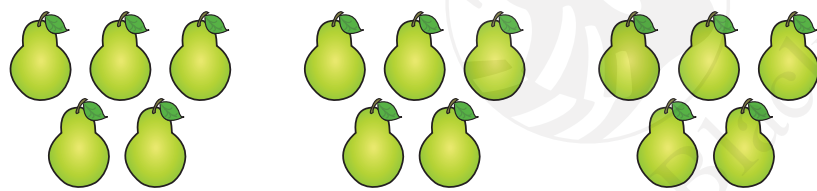
If 16 is **equally divided into** 4 groups, **each group has** 4  
 We say: 16 **divided by** 4 **equals** 4  
 We write: 16  $\div$  4 = 4  
 The symbol for division is  $\div$

### Exercise 6.1

The objects are divided into equal groups. Write the division fact for each.

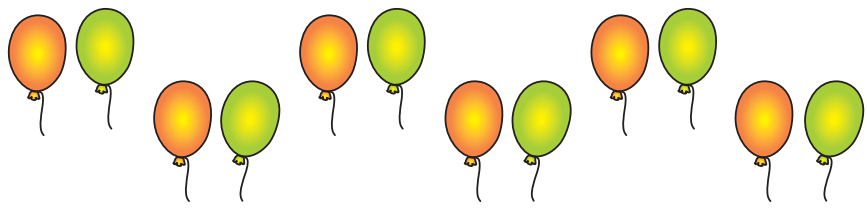
a)   $8 \div 4 = \underline{\quad}$

b)   $12 \div \underline{\quad} = \underline{\quad}$

c)   $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

d)   $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

e)   $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

f)   $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

## ❖ Finding number of groups

You have seen that division means sharing equally. We can also use division to find **'How many groups?'**

You have 12 sweets. You want to divide them into packets of 4 each. How many packets will you get?

You have **12** sweets.

Take away 4 sweets and put them in a packet.

You have  $12 - 4 = 8$  left.

Take away 4 more and put them in another packet.

You have  $8 - 4 = 4$  left.

Take away 4 more and put them in a third packet.

You have  $4 - 4 = 0$  left.

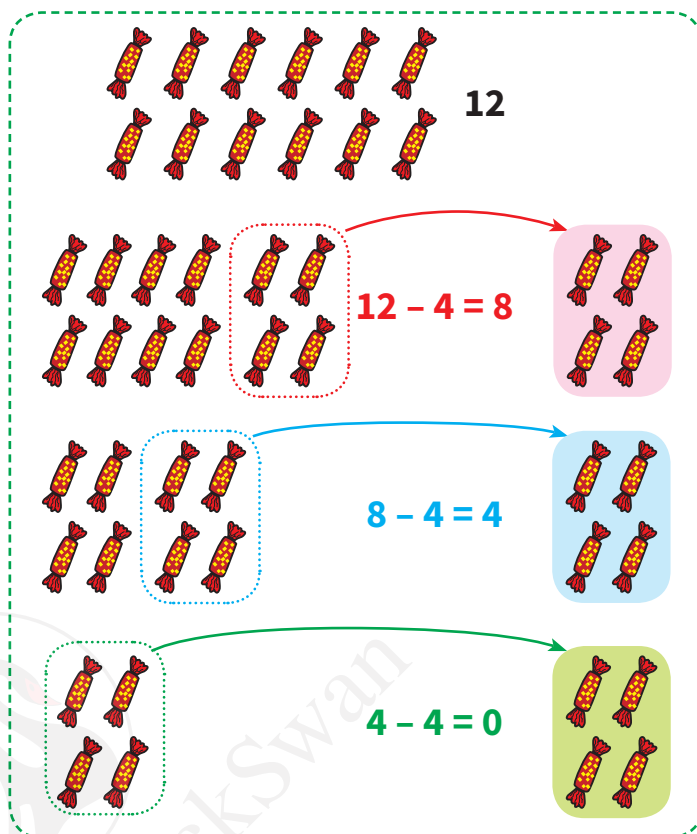
How many packets did you get? \_\_\_\_\_

We see that:

12 **put into equal groups** of 4 each **gives** 3 groups

12 **divided by** 4 **equals** 3

12  $\div$  4  $=$  3



## ACTIVITY 2



### Dividing by finding the number of groups

**Objective:** To develop conceptual understanding of division.

**Material required:** Concrete objects such as counters, ice-cream spoons or pencils.

**Method:** To divide 10 by 2, proceed as follows.

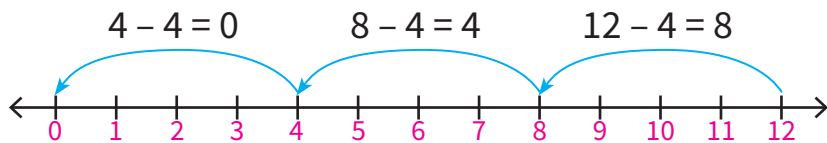
1. Divide children into pairs. Give 10 counters to each pair.
2. Tell them to take out 2 counters at a time and keep them in separate groups until no counters are left.
3. Ask them how many groups of 2 counters each they have.
4. Let them say aloud: '10 divided by 2 equals 5.'

## ❖ Division as repeated subtraction

How did you divide 12 sweets into groups of 4 each?

You **repeatedly subtracted** 4 from 12 till no sweets were left.

You can see this on the number line:



4 can be **repeatedly subtracted** from 12 **three times**.

This means that  $12 \div 4 = 3$

Therefore, we can say that **division is repeated subtraction**.

$12 \div 4 = 3$  shows that there are **3 fours in 12**.



### Exercise 6.2

#### 1. Subtract repeatedly to get the division fact.

a)  $20 \div 5 =$  \_\_\_\_\_

$$\begin{array}{r} 20 \\ - 5 \\ \hline 15 \\ - 5 \\ \hline 10 \\ - 5 \\ \hline 5 \\ - 5 \\ \hline 0 \end{array}$$

b)  $21 \div 7 =$  \_\_\_\_\_

$$\begin{array}{r} 21 \\ - 7 \\ \hline 14 \\ - 7 \\ \hline 7 \\ - 7 \\ \hline 0 \end{array}$$

c)  $24 \div 6 =$  \_\_\_\_\_

#### 2. Use repeated subtraction to divide.

a)  $18 \div 6 =$  \_\_\_\_\_    b)  $14 \div 7 =$  \_\_\_\_\_    c)  $24 \div 8 =$  \_\_\_\_\_    d)  $36 \div 9 =$  \_\_\_\_\_

### 3. How many:

a) fives in 25? \_\_\_\_\_

b) eights in 16? \_\_\_\_\_

c) fours in 24? \_\_\_\_\_

d) sixes in 36? \_\_\_\_\_

### 4. Divide with the help of the number line.

a)  $15 \div 3 =$  \_\_\_\_\_ 

b)  $16 \div 2 =$  \_\_\_\_\_ 

c)  $20 \div 4 =$  \_\_\_\_\_ 

## ❖ Multiplication and division

If 3 groups of 4 marbles each are put together, you get 12 marbles.

This is written as:  $3 \times 4 = 12$

If 12 marbles are divided into 3 groups, there are 4 marbles in each group.

This is written as:  $12 \div 3 = 4$

Also if 12 marbles are divided into 4 groups, there are 3 marbles in each group.

This is written as:  $12 \div 4 = 3$

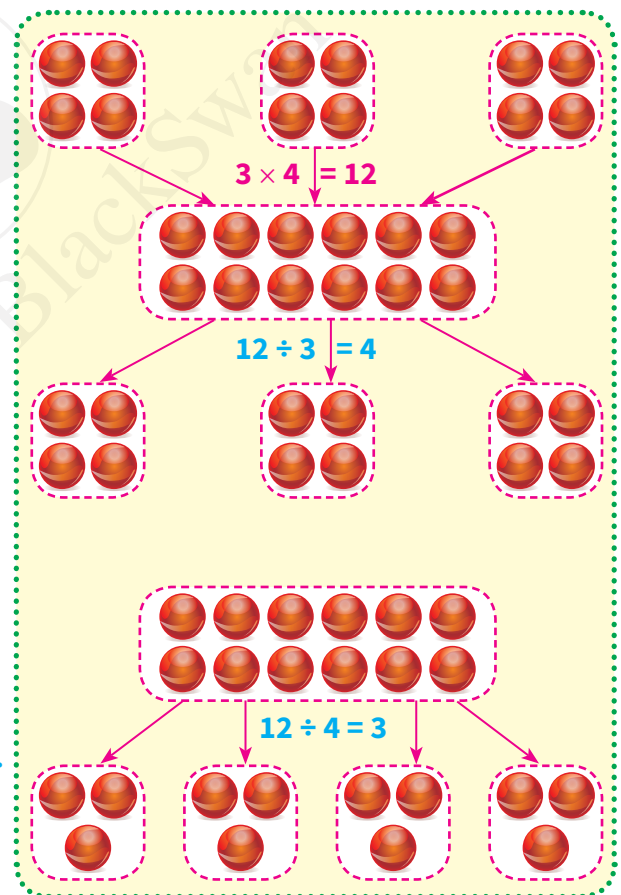
Multiplication means **putting equal groups together**.

Division means **dividing into equal groups**.

Therefore division and multiplication are the opposite of each other.

For one multiplication fact:  $3 \times 4 = 12$

we can write two division facts:  $12 \div 3 = 4$  and  $12 \div 4 = 3$



### Exercise 6.3

1. For each multiplication fact, write the two division facts.

a)  $8 \times 2 = 16$  \_\_\_\_\_

b)  $9 \times 3 = 27$  \_\_\_\_\_

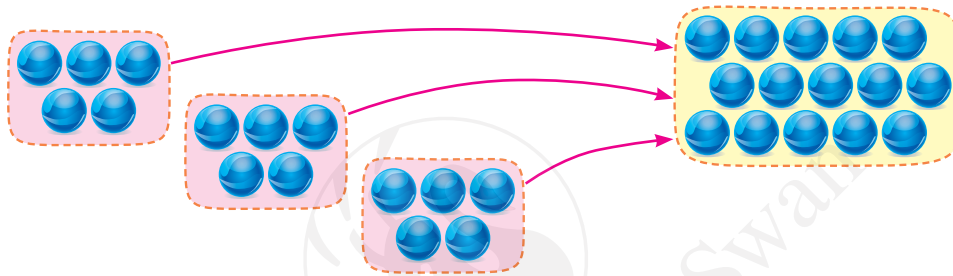
c)  $6 \times 7 = 42$  \_\_\_\_\_

d)  $4 \times 6 = 24$  \_\_\_\_\_

### ❖ Division using tables

You have seen that:

$15 \div 5 = 3$  means that there are **3 fives in 15**.



So, to divide 14 by 2 you have to find how many twos there are in 14.

You can do this by using the 2-times table.

From the table you can see that:

**7 twos are 14.**

Therefore,  $14 \div 2 = 7$

1 two is 2	$1 \times 2 = 2$
2 twos are 4	$2 \times 2 = 4$
3 twos are 6	$3 \times 2 = 6$
4 twos are 8	$4 \times 2 = 8$
5 twos are 10	$5 \times 2 = 10$
6 twos are 12	$6 \times 2 = 12$
<b>7 twos are 14</b>	<b><math>7 \times 2 = 14</math></b>
8 twos are 16	$8 \times 2 = 16$
9 twos are 18	$9 \times 2 = 18$
10 twos are 20	$10 \times 2 = 20$

It is easy to divide if you know your tables.



### Exercise 6.4

1. Divide using the 2-times table.

a)  $20 \div 2 =$  \_\_\_\_\_ (see the table to find how many twos there are in 20.)

b)  $12 \div 2 =$  \_\_\_\_\_      c)  $16 \div 2 =$  \_\_\_\_\_      d)  $8 \div 2 =$  \_\_\_\_\_

2. Divide using the 5-times table.

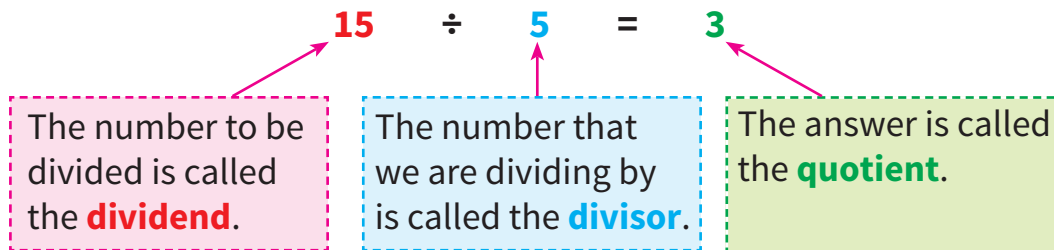
a)  $20 \div 5 =$  \_\_\_\_\_      b)  $30 \div 5 =$  \_\_\_\_\_      c)  $15 \div 5 =$  \_\_\_\_\_      d)  $50 \div 5 =$  \_\_\_\_\_

### 3. Divide using tables.

- a)  $40 \div 8 =$        b)  $40 \div 5 =$        c)  $10 \div 5 =$        d)  $30 \div 6 =$
- e)  $49 \div 7 =$        f)  $32 \div 8 =$        g)  $28 \div 4 =$        h)  $42 \div 6 =$
- i)  $27 \div 9 =$        j)  $50 \div 10 =$        k)  $30 \div 3 =$        l)  $63 \div 7 =$

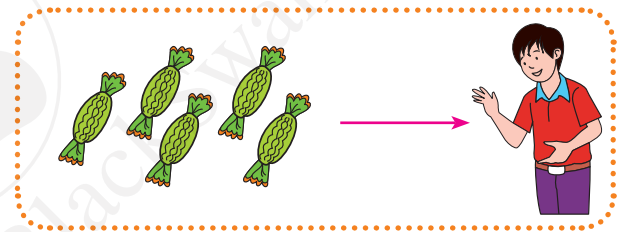
### ❖ Properties of division

In the division:



#### 1. Dividing by 1

If 5 sweets have to be divided between only 1 person, that person will get all 5 sweets!



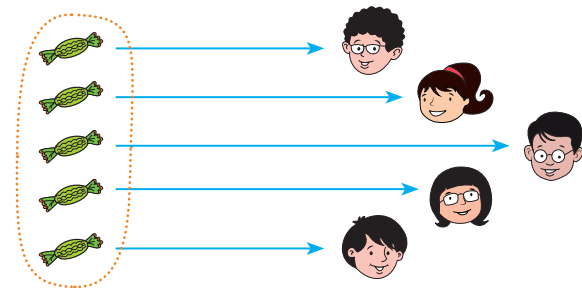
Therefore,  $5 \div 1 = 5$

Any number divided by 1, gives the same number as the quotient.

**Examples:**  $7 \div 1 =$         $9 \div 1 =$         $16 \div 1 =$

#### 2. Dividing a number by itself

If 5 sweets have to be equally divided between 5 children, each child will get 1 sweet!



Therefore,  $5 \div 5 = 1$

Any number divided by itself will give 1 as the quotient.

**Examples:**  $6 \div 6 =$         $8 \div 8 =$         $15 \div 15 =$

### 3. Dividing 0

If 0 sweets have to be equally divided between 5 children, each child will get 0 sweets!

Therefore,  $0 \div 5 = 0$



When 0 is divided by any number (other than 0) the quotient is 0.

**Examples:**  $0 \div 5 =$         $0 \div 10 =$         $0 \div 17 =$

### 4. Dividing by 0

A number cannot be divided by 0.

Think! What will happen if you repeatedly subtract 0 from 5?  
You will keep on getting the difference as 5, no matter how many times you subtract!

$5 - 0 = 5$      $5 - 0 = 5$      $5 - 0 = 5$      $5 - 0 = 5$      $5 - 0 = 5 \dots$

### Exercise 6.5

Fill in the blanks, using the properties of division.

a)  $0 \div 2 =$        b)  $9 \div 1 =$        c)  $16 \div 16 =$        d)  $0 \div 10 =$    
e)  $10 \div 1 =$        f)  $0 \div 6 =$        g)  $6 \div 6 =$        h)  $0 \div 1 =$    
i)  $9 \div 9 =$        j)  $15 \div 1 =$        k)  $20 \div 1 =$        l)  $10 \div 10 =$

## Exercise 6.6: Real life applications

1. Hari has 24 pencils. He has 3 boxes.  
He puts an equal number of pencils  
in each box.

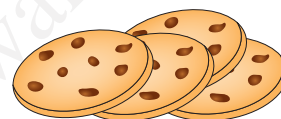
How many pencils are there in  
each box?

$$\begin{aligned}\text{Number of pencils} &= 24 \\ \text{Number of boxes} &= 3 \\ \text{So, number of pencils} \\ \text{in each box} &= 24 \div 3 = 8\end{aligned}$$

2. Raju's mother buys 56 rose plants.  
She plants them in 7 equal rows.  
How many plants are there in each row?



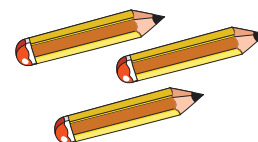
3. 60 biscuits are equally packed in 6 boxes.  
How many biscuits are there in each box?



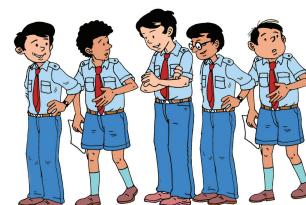
4. Mary has 30 marbles and 5 bags.  
She puts equal number of marbles in each bag.  
How many marbles are there in each bag?



5. 64 pencils were equally divided among 8 children.  
How many pencils did each child get?



6. 54 boys are standing in 9 rows.  
The number of boys in each row is the same.  
How many boys are there in each row?





## Exercise 6.7: Mixed real life applications

1. One story book costs ₹ 10. What is the price of 5 story books?



2. How many weeks are there in 49 days?

(Hint: How many days does a week have?)

3. There are 72 apples in 8 boxes. How many apples are there in each box?



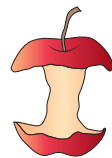
4. Mina bought 5 boxes of eggs. There were 6 eggs in each box. How many eggs did Mina buy?



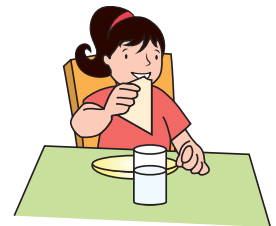
5. Asha had 72 stamps and Asma had 8 stamps. How many stamps did they have altogether?



6. Abha's mother bought 12 apples. 6 apples were eaten on the first day and 3 on the second day. How many apples are left?



7. 20 sandwiches were divided equally among some children. If each child got 2 sandwiches, how many children were there?



8. The cost of 8 pencils is ₹ 32. What is the cost of 1 pencil?



# WORKOUT 1

understand and calculate



1. 12 flowers are equally divided into 3 groups. Fill in the blanks.

Total number of flowers = \_\_\_\_\_

Number of groups = \_\_\_\_\_

Number of flowers in each group = \_\_\_\_\_



Write the division to show the above: \_\_\_\_\_

2. Write the division facts for the given multiplication fact.

a)  $3 \times 7 = 21$  \_\_\_\_\_

b)  $8 \times 6 = 48$  \_\_\_\_\_

c)  $9 \times 4 = 36$  \_\_\_\_\_

3. Write the multiplication fact for the given division fact.

a)  $16 \div 2 = 8$  \_\_\_\_\_

b)  $30 \div 10 = 3$  \_\_\_\_\_

c)  $60 \div 6 = 10$  \_\_\_\_\_

d)  $28 \div 7 = 4$  \_\_\_\_\_

4. Divide using tables.

a)  $14 \div 7 =$

b)  $48 \div 8 =$

c)  $54 \div 9 =$

d)  $20 \div 4 =$

e)  $35 \div 7 =$

f)  $28 \div 4 =$

g)  $12 \div 2 =$

h)  $15 \div 3 =$

i)  $35 \div 5 =$

j)  $70 \div 10 =$

k)  $18 \div 9 =$

l)  $48 \div 6 =$

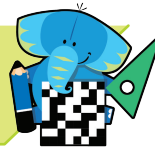
5. 36 friends decide to go for a picnic by car. 6 persons can sit in each car. How many cars are needed?

6. Colour pencils are sold in boxes of 10 each. A shopkeeper has 90 colour pencils. How many boxes can he make?



# WORKOUT 2

think and apply



## MCQs

1. If 20 marbles are equally divided among 5 children, the number of marbles each child gets is equal to:  
a)  $20 - 5$                       b)  $5 \div 20$                       c)  $20 \div 5$
2. If  $20 \times 8 = 160$ , which of the following is true?  
a)  $160 \div 20 = 8$                       b)  $160 \div 8 = 20$                       c) both a and b
3. 5 buttons are needed for 1 shirt. How many buttons are needed for 10 shirts?  
a)  $10 \times 5$                       b)  $10 + 5$                       c)  $10 \div 5$                       d)  $10 - 5$

## Problem solving

4. How many division facts can you write for  $4 \times 4 = 16$ ?  
Can you find two more multiplications where the number of division facts is not 2?
5. You have 10 sweets. You want to distribute them equally between 3 friends.  
Can you do this?  
Distribute and see what happens.



## Cross-curricular question

6. Mala wants to make a garland of 50 petals of the geranium flower.  
Each geranium flower has 5 petals. How many flowers will Mala need?



# Inspired Maths



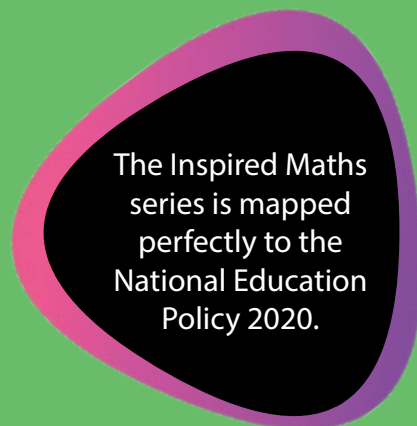
Orient BlackSwan

For the CISCE curriculum  
CLASS 3

The National Education Policy (NEP) 2020 emphasises certain crucial parameters based on content and pedagogy.

The Inspired Maths series provides a rich range of exercises and activities for each of the parameters.

Here is a quick reference guide to some of the examples in this book.



## 21<sup>st</sup> Century Skills

A broad set of skills, knowledge, work habits and character traits that are important for success in the 21<sup>st</sup> century

The NEP parameters	Features	Page nos.
The 4Cs		
Collaboration	Activity 3	12
Creativity	Workout 2-Fun Activity	126
Collaboration, Communication	Activity 7	124
Creativity and Collaboration	Make your own story sums	33–34
Critical Thinking	Workout 2-Problem Solving	93, 108, 145
Critical Thinking, Creativity	Workout 2-Problem Solving	37, 49

## Experiential/ Constructivist Approach

Learners construct their knowledge, based on what they already know, through experience or by doing and reflection

The NEP parameters	Features	Page nos.
Experiential/Constructivist Approach	Activity 1–2, 4–5	5, 6, 15, 16
	Activity 1–2, 4–9	131, 133, 135–138, 140, 141
	Workout 2-Project	145
	Activity 1–2, Workout 2-Fun Activity	176, 177, 178

## Integrated Approach

An approach to teaching and learning that works by connecting knowledge and skills across the curriculum, by bringing real life examples to the classroom

The NEP parameters	Features	Page nos.
Subject Integration	Workout 2-Cross-curricular (EVS)	63
	Workout 2-Cross-curricular (EVS)	108
	Workout 2-Cross-curricular (EVS)	145
	Workout 2-Cross-curricular (EVS)	162
Art Integration	Exercise 7.5	123
	Workout 2-Cross-curricular	162

The NEP parameters	Features	Page nos.
Know more about India	Workout 2-Heritage	23

## India Knowledge

A strong focus on ancient knowledge from India, traditional values, modern developments and future aspirations

## Digital Integration

The use of digital tools to enhance and support the teaching-learning process

### ICT/Digital resources

OrientBlackSwan Smart App - Interactive Tasks for Practice and Revision

Teachers' Smart Book - Embedded Questions, Interactive Tasks, Animations, Games, Presentations, Worksheets, Teachers' Resources, Question Paper Generator

### Teacher Empowerment

Teachers' Resource Pack - Lesson Plans with Extension Activities, Worksheets with Answers, Question Bank with Answers, Assessment Papers

Teachers' Portal - E-chapters, Lesson Plans, Worksheets with Answers, Question Bank with Answers, Assessment Papers



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3-6-752 Himayatnagar, Hyderabad 500 029, Telangana, INDIA  
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