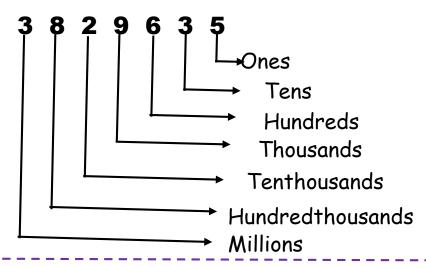
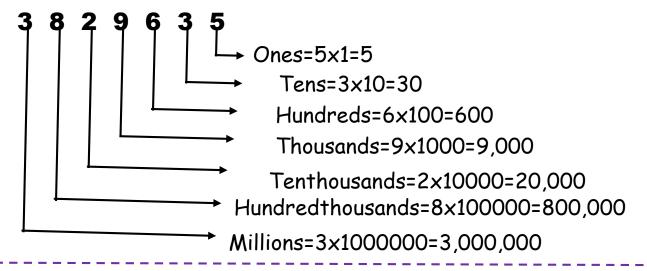
**CONTENT:** Finding place values and values

#### **Examples**

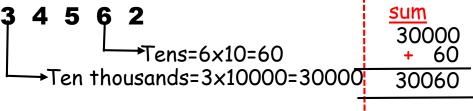
Identify the place value of each digit in the number below



#### Find the value of each digit in the number below



Find the sum of the values of 3 and 6 in the number 34562



# Find the product of the values of 4 and 6 in the number 4062 4 0 6 2 Tens= $6\times10=60$ Thousands= $4\times10000=40000$ Product $=40000\times60$ =240000

Find the product of the value of 8 and the place value of 3 in the number 53862

**5 3 8 6 2**Hundreds=8x100=800

Thousands=1000

### **Product**

=800 × 1000 =800000

#### **ACTIVITY**

- 1. Find the place value of each of the digits with a ring in the following numbers.
- a) 4(7)6 5

b) (5)6 9 3 8

- C) 4 0(6)5 7
- 2. Find the value of each of the digits with a ring in the following numbers.
  - a) 3 7 4
- b) 4(2)5 8 9
- c) (4)6 9 594
- 3. Find the sum of the values of 4 and 6 in the number 63478.
- 4. Workout the product of the values of 3 and 5 in the number 3765.
- 6. Represent the following numbers on an abacus.
- a) 4302

b) 3205

c) 2520

**TOPIC: WHOLE NUMBERS** 

**CONTENT:** Writing whole numbers in words and in figures

# **Examples**

Write the following numbers in words

a) 8 2 9 6 3 5

Thousands	Units
829	635

829,635= Eight hundred twenty nine thousand six hundred thirty five.

#### **b)** 99035

Million	Thousands	Units
	99	035

99,035=Ninety nine thousand thirty five.

### c) 40215

Million	Thousands	Units
	40	215

40,215=Forty thousand two hundred fifteen.

- 2. Write the following in figures
  - a) Forty nine thousand fifteen.

b) Ninety six thousand forty. 96000

Million	Thousands	Units
	3	048

3048=Three thousand forty eight.

#### **ACTIVITY**

- 1. Write the following numbers in words.
- a) 4 7 6 5 b) 5 6 9 3 8 C) 40657
- d) 55009

- 2. Write the following in figures.
- a) Forty six thousand eighty five.
- b) Seventy two thousand two hundred thirteen.
- c) Nine hundred four thousand nineteen.

#### **TOPIC: WHOLE NUMBERS**

# **CONTENT:** Forming numbers using digits

# **Examples**

- 1. Given the digits 3,4,6 write down all the 3-digit numbers formed using the digits above.
- =346,364,436,463,634,643
- 2. Given the digits 0,4,1 write down all the 3-digit numbers formed using the digits above.
- =104,140,403,430
- 3. Given the digits 2,4,1 and6
- a) Write down the smallest 4-digit number that can be formed using the above digits.
- =1246

b) Write down the largest 4-digit number that can be formed using the above digits.

=6421

- 4. Given the digits 2,0,4 and1
- a) Write down the smallest 4-digit number that can be formed using the above digits.

=1024

b) Write down the largest 4-digit number that can be formed using the above digits.

=4210

# Activity

- 1. Given the digits 5,9 and 6 write down all the 3-digit numbers formed using the digits above.
- 2. Given the digits 0,6 and 7 write down all the 3-digit numbers formed using the digits above.
- 3. Given the digits 9,8,1 and2
- a) Write down the smallest 4-digit number that can be formed using the above digits.
- b) Write down the largest 4-digit number that can be formed using the above digits.
- c) Find the sum of the smallest and the largest numbers formed.
- 4. Given the digits 3,8,0 and2
  - a) Write down the smallest 4-digit number that can be formed using the above digits.
  - b) Write down the largest 4-digit number that can be formed using the above digits.
  - c) Find the sum of the smallest and the largest numbers formed.

# CONTENT: Writing whole numbers in expanded form using place values and values Examples

- 1. Expand the following using place values
  - a.) 9812

TH	Н	Т	0
9	8	1	2

b) 23012

TTH	TH	Н	Т	0	=(2×10000) + (3×100) + (0×10) + (1×10)+ (2×1)
2	3	0	1	2	

2. Expand the following using values

a) 927

Н	Т	0
9	2	7

$$=(9\times100) + (2\times10) + (7\times1)$$

b) 4812

ТН	Н	Т	0
4	8	1	2

$$=(4\times1000) + (8\times100) + (1\times10) + (2\times1)$$

#### Activity

- 1.Expand the following using place values.
- a) 234

b) 3427

c) 7924

- 2.Expand the following using values.
  - a) 534

b) 7269

c) 68934

#### CONTENT: Writing whole numbers in expanded form using powers of ten **Examples**

- 1 Expand the following using place values
  - a) 9812

10 <sup>3</sup>	10 <sup>2</sup>	10 <sup>1</sup>	10°
9	8	1	2

 $9812=(9\times10^3)+(8\times10^2)+(1\times10^1)+(2\times10^0)$ 

10 <sup>4</sup>	10 <sup>3</sup>	10 <sup>2</sup>	10¹	10°
2	3	5	1	2

 $=(2\times10^4)+(3\times10^3)+(5\times10^2)+(1\times10^1)+(2\times10^0)$ 

10 <sup>2</sup>	10 <sup>1</sup>	10°	
9	2	7	

$$=(9\times10^2)+(2\times10^1)+(7\times10^0)$$

#### Activity

- 1. Expand the following using powers of ten.
- a) 234

b) 3427

c) 7924

c) 534

d) 7269

c) 68934

# **CONTENT:** Rounding off whole numbers

**Examples** 

1. Round 578 off to the nearest tens. b) 3 6 4

2. Round 5378 off to the nearest hundreds

b) 3 6 3 8

3. Round 5378 off to the nearest thousands

#### Activity

- 1. Round off the following to the nearest tens
  - a) 234

b) 3427

- c) 7929
- 2. Round off the following to the nearest hundreds.
- a) 534

b) 7269

- c) 68934
- 3. Round off the following to the nearest thousands.
  - a) 8421

b) 8269

- c) 12934
- 4. Round off 236578 to the nearest ten thousands.

CONTENT: Writing natural numbers in Roman Numerals

#### Basics of Roman Numerals

1	5	10	50	100	500	1000
L	V	X	L	C	Q	W

4 =IV	6=VI	9=IX	2=11	3=111
40 =XL	60=LX	90=XC	20=XX	30=XXX
400 =CD	600=DC	900= <i>C</i> M	200= <i>CC</i>	300= <i>CCC</i>
			2000=MM	3000=MMM

1. Convert 96 into Roman numerals

$$96 = 90 + 6$$

2. Convert LIX in Hindu Arabic numerals

#### Activity

1. Write the following numbers in Roman Numerals

- a) 54
- b) 49
- c) 99
- d) 955 e) 415

2. Write the following Roman Numerals into Hindu Arabic Numerals

a) LIX

- b) XCIX c) LXXXIV d) MDCIV

3. Alex is XLIX years old. Express his years in Hindu Arabic numerals