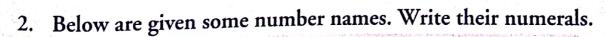


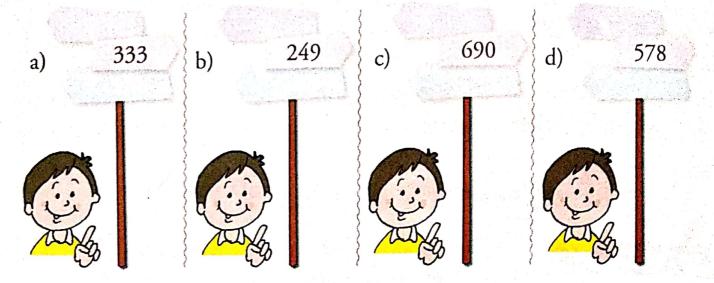
1 Numbers up to 9999



1. Below are given some numbers. Write their number names.

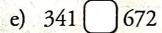


3. Write the numbers that come before and after the numbers given.



4. Write in the boxes the correct symbol, <, > or =.

		Company of the company
a)	439	760
α,	137	





5. Write the following numbers in ascending order.

a) 789	303	511	911) (() () () () () () () () () ()	() (-
b) 215	899	432	342) (1 () (Total Control
c) 666		7.7		Charles of the Charles	1	STUMBERS OF	(1	and the contract	B 4000 6 17

6. Write the following numbers in descending order.

a) 203 858 570 764 l		
b) 310 612 423 101 (
c) 125 165 543 645 (COMMUNICATION OF THE PARTY OF T

7. Write the odd and even numbers in the correct boxes.

10	2	5	67	509	251	444	999	567	346	76
35	4	188	450	801	73	892	55	88	2	937

Even numbers							
±	-						
	i jerni di						
12.							

ODD NUMBERS							
-							
y 2, 1 =	<i>y</i>						



4-digit numbers

0000000000

make 1

= 10

10 ones makes 1 ten

make 1



10 tens make 1 hundred

Now, let us add 1

999 + 1 = 9 hundreds + 9 tens + 9 ones + 1 one

= 9 hundreds + 9 tens + 10 ones

= 9 hundreds + 9 tens + 1 ten

= 9 hundreds + 10 tens

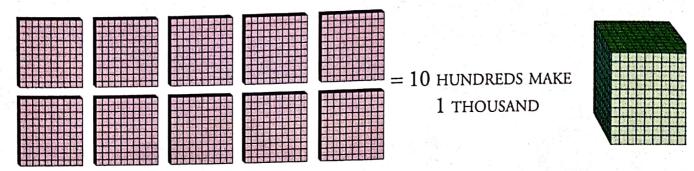
= 9 hundreds + 1 hundred

= 10 hundreds

= 1 THOUSAND

1 THOUSAND can be written as 1000.

1000 is the smallest 4-digit number.



To get any number greater than 1000, we must add 1 or more to it.

Example:

$$+ \mathbf{n} = 1000 + 1 = 1001$$
 (one thousand one)

$$1000 + 2 = 1002$$
 (one thousand two)

$$1000 + 3 = 1003$$
 (one thousand three)

9999 is the largest 4-digit number.

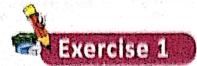
Spot Check

Fill in the missing numbers.

0.	2001				2008	
			2015			
						2030
		2033	jour of the			
				2047		

Counting in thousands

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1000		1000	one thousand
1000 + 1000		2000	two thousand
1000 1000 1000		3000	three thousand
1000 1000 2000 1000		4000	four thousand
1000 + 1000 + 1000 + 1000		5000	five thousand
1000 + 1000 + 1000 + 1000	+ 1000	6000	six thousand
1000 + 1000 + 1000 + 1000	+ 1000 + 1000	7000	seven thousand
1000 + + + + + + + + + + + + + + + + + +	+ 1000 + 1000 + 1000	8000	eight thousand
1000 + 1000 + 1000 + 1000	+ 1000 + 1000 + 1000	9000	nine thousand
1000 + 1000 + 1000 + 1000	+ 1000 + 1000 + 1000 + 1000	10000	ten thousand



1. Fill in the missing numbers.

600			u usanta transca wa si	Constant of Constant					6051
					6065				and public and the second
			6077		A Section 1		and the second s		A
						and the same	6083	Total and a series of persons	
Parameter or an annual	6099		and the second			La Service de La Carte de Cart		pales (percept a de laca) i	and the second s
		and the state of t	promote constant	and the trial		tan a company of the same sections.			7701
and the state of		7718	and the second second	and the	The state of the state of the state of	nenaci snauchting nu stan		and a second second second second	
v d sedice a						7724	are transmissioner director	the party of the party of the	The state of the s
774									
gis i skantila	Section 2			7746					
				an Europe (Elme) et e			n standard of the standard of		9951
				9966					
	9979								
		and the same of the same						9982	
7.4							9993		

2.	Count b	y 5s and	write the	numbers	before/s	ifter the	following.
----	---------	----------	-----------	---------	----------	-----------	------------

10	2450	Magintophalactic financial projects and a	1 - 2 - 2 - 2					
и,	2470,	Chapter of the Contract of the	nimen manager material \$	Marie La Sales jun	desirentations &	electricities	La Library	0,44

3. Count by 10s and write the numbers before/after the following.

a) 7846,			
	alternative and the second of the	Militaria esta con tracka front income .	State application of Spilling

b) _____, 8961

- 4. Count by 100s and write the numbers before/after the following.
 - a) 3669, ______, _____, ______
 - b) ______, ______, 9844

Forming numbers

We represent the thousands place with Th.

1000 is the smallest 4-digit number.

Th	Н	T.	0
1	0	0	0

Example: 3749

$$3000 + 700 + 40 + 9$$

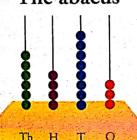
(3 thousands + 7 hundreds + 4 tens + 9 ones)

Th	Н	Т	0
3	7	4	9

Numbers on the abacus

Example: The abacus shows 6 thousands, 4 hundreds, 8 tens and 3 ones.

The abacus

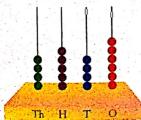


The number will be written as 6483.

In words, it is six thousand four hundred eighty-three.

Spot Check

Write the number on the abacus.



In numbers _____

In words _____

Life Skills

EXPERIENTIAL LEARNING

You can break a mobile number in three parts, for example, it can be remembered as XX XXXX XXXX. Remember the mobile numbers of your parents.



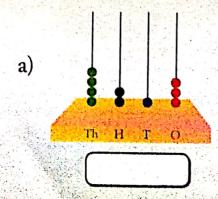
1. Write the numerals of the number names.

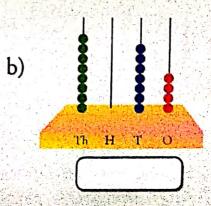
- a) seven thousand three hundred eighty-four
- b) two thousand twenty-two
- c) four thousand nine hundred thirty
- d) one thousand five hundred sixteen
- e) nine thousand eight hundred

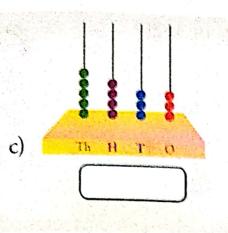
2. Write the number names.

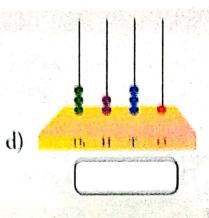
- a) 4567 _____
- b) 9097 _____
- c) 1420
- d) 8010 _____
- e) 6505 _____

3. Count the beads on the abacus and write the numbers.

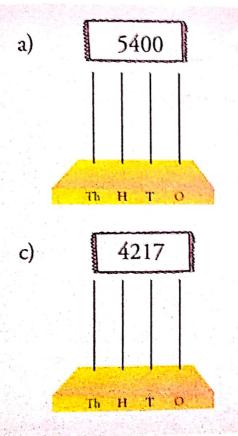


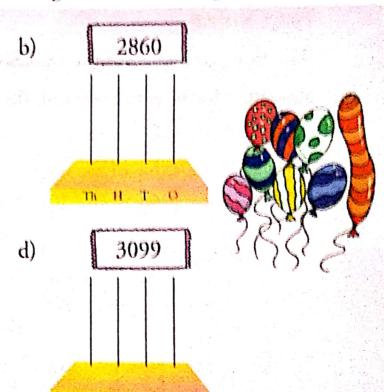






4. Draw the beads on the abacus according to the numbers given.





Place value and face value

Place value

The place value of a digit depends on its position in the number.

As you move to the left in a number, the place value keeps increasing by ten times.

Example: What is the place value of the digits in 3420?

The place value of 0 is 0 ones, that is 0.

The place value of 2 is 2 tens, that is 20.

The place value of 4 is 4 hundreds, that is 400.

The place value of 3 is 3 thousands, that is 3000.



Maths Tip

The face value of a digit is always the same as the digit.

Face value

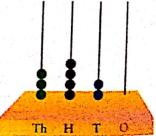
The face value of a digit is its individual value itself.

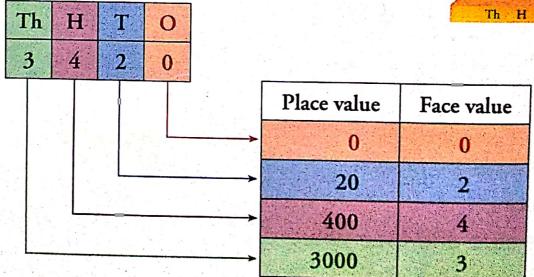
Example: In the number 3420, the face value of 0 is 0.

The face value of the digit 2 is 2.

The face value of the digit 4 is 4.

The face value of the digit 3 is 3.





Think and Answer

In which place does a digit in a number have the same place value and face value?

a. thousands

b. hundreds

c. tens

d. ones

Exercise 3

1. Write down the place value of the underlined digits.

a) <u>6</u> 000	b) 22 <u>9</u> 5
c) 1 <u>3</u> 00	d) 4 <u>0</u> 56
e) 7 <u>6</u> 98	f) 630 <u>2</u>
g) 71 <u>1</u> 8	h) 899 <u>9</u>

2. Make numbers with the ones, tens, hundreds and thousands given.

a)	b)	c)	d)
5 ones o 6 tens 3 thousands 4 hundreds	1 thousand o 4 tens 6 ones 2 hundreds	2 thousands o 3 hundreds 1 ten 5 ones	2 ones 0 8 thousands 3 hundreds
e)	f)	g)	h)
9 tens o 3 ones o thousands 3 hundreds	2 hundreds o 6 thousands 7 ones 6 tens	2 tens 3 ones 5 thousands 8 hundreds	7 tens 2 ones 5 hundreds 2 thousands

Project

EXPERIENTIAL LEARNING

Using the Internet, find the number of test matches played by the following batsmen.

Kapil Dev, Sunil Gavaskar, Sachin Tendulkar

Now answer the questions given below:

- (a) Who played the maximum number of matches?
- (b) Who played the minimum number of matches?

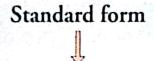
Expanded form and standard (short) form

The expanded form of a number is the sum of the place values of all the digits present in the number.

The standard form of a number is when we combine the face values of all the digits in the numbers.

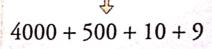
Example: What is the standard form of the expanded form of 4519?





4519

Expanded form



Maths Tip

- Whenever there is a zero in the ones place, it means there are no ones.
- Whenever there is a zero in the tens place, it means there are no tens.
- Whenever there is a zero in the hundreds place, it means there are no hundreds.

Exercise 4

1. Write the expanded form of the numbers.

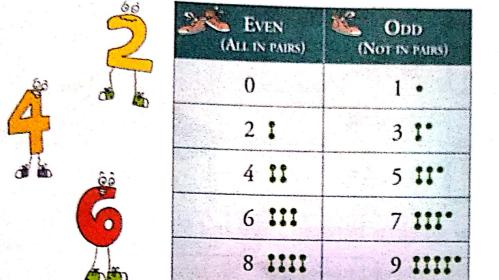
2. Write the standard form.

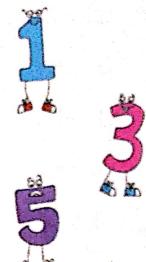
a)
$$4000 + 500 + 6 =$$

c)
$$9000 + 60 + 3 =$$



Even and odd numbers





The numbers 2, 4, 6 and 8 make perfect pairs. Hence, they are called even numbers.

The numbers 1, 3, 5, 7 and 9 do not make perfect pairs and so are called odd numbers.

All numbers that have 0, 2, 4, 6 or 8 in the ones place are even numbers. All numbers that have 1, 3, 5, 7 or 9 in the ones place are odd numbers.

Predecessor and successor

A number that comes just before (or precedes) a number is known as the predecessor of the number.

Subtract 1 from the given number to get its predecessor.

Example: Find the predecessor of 7845.

$$7845 - 1 = 7844$$

A number that comes just after (or succeeds) a number is known as the successor of the number.

Add 1 to the given number to get its successor.

Example: Find the successor of 7845.

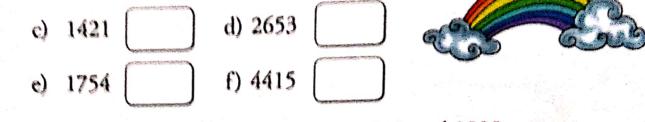
$$7845 + 1 = 7846$$

Exercise 5

3.

1. Write odd or even.

a)	5964	even	b)	7598	
c)	1421		d)	2653	

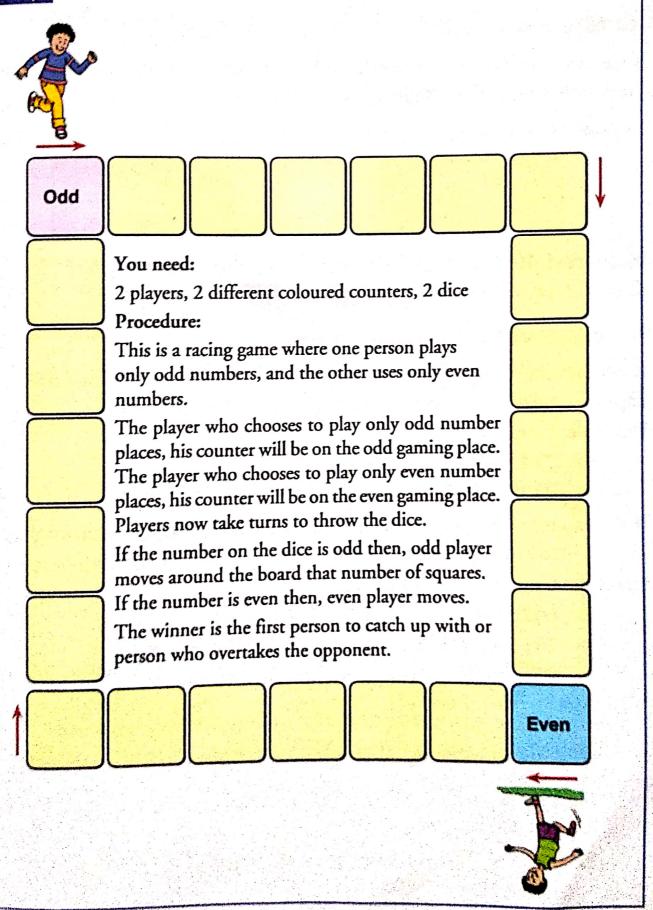


2. Write any 5 even numbers between 7500 and 9999.

enants come nonnels and enterenance of		and discount was the party of t		
Write any 5	odd number	rs between 20	000 and 6000	

4. Write the predecessors and successors of the numbers given.

	Predecessor	Successor	
a)	тинический зб71		
b)	мантинический политический политический беспеция		
c)	2684		20
d)	4931		
e)	9998	the first of the second	
Ð.	5210		



Comparing numbers

Numbers with different number of digits

If the two numbers being compared have different number of digits, the number with more digits is the greater one.

Example: Compare 4512 and 359.

Th	Н	Т	0
4	5	1.	2

Th	н	T	0
	3	5	9

In this case, 4512 has four digits and 359 has three digits. So, 4512 is greathan 359, or we can say 4512 > 359.

Numbers with the same number of digits

If two numbers have the same number of digits, we compare the extreme legits. The number with the greater extreme left digit is greater.

Example: Compare the numbers.

- $4 \times 714 > 398$, because 7 > 3
- $\underline{2}128 < \underline{4}972$, because 2 < 4

If the extreme left digits of two numbers are the same, we compare the nex digit towards their right and so on.

Example: Compare the numbers.

- 6428 > 6319, because 6 = 6, but 4 > 3
- 4 = 2456 > 2438, because 2 = 2, and 4 = 4, but 5 > 3
- 8361 < 8364, because 8 = 8, and 3 = 3 and 6 = 6 but 1 < 4

Example: Shreya and Ravi are saving money. Shreya has saved ₹ 2789. Ravi has saved ₹ 6540. Who has saved more money?

Let us compare 2789 and 6540.

As, 6 > 2, 6540 > 2789

Hence, Ravi has saved more money.



Think and Answer

Which single digit will you replace in the number 3457 to get a number higher than 8456?

a. 3 b. 4 c. 5 d. 9

Ordering numbers

Numbers can be arranged from the smallest to the greatest or from the greatest to the smallest.

Ascending order

When we arrange numbers from the smallest to the greatest, they are said to be arranged in an ascending order.

Descending order

When we arrange numbers from the greatest to the smallest, they are said to be arranged in a descending order.

Example: Arrange the following numbers in ascending and descending orders.

6708, 4562, 7231, 340, 5679

340 < 4562 < 5679 < 6708 < 7231

Ascending order: 340, 4562, 5679, 6708, 7231

7231 > 6708 > 5679 > 4562 > 340

Descending order: 7231, 6708, 5679, 4562, 340

A 3-digit number will always be smaller than a 4-digit number.

Exercise 6

Find the greatest and the smallest number.

- a) 382, 4972, 1895, 5785, 750
- b) 1473, 8423, 100, 5000, 310
- e) 3834, 7528, 1110, 2333, 450
- d) 2853, 7691, 9999, 2002, 124

Greatest number	Smallest number
THE RESERVE OF THE PARTY OF THE	
	KACATOO OO TA'AA OO TA'AA OO TA'AA OO TA'AA AA
	Control of the second s
the part of the control of the contr	

2. Write <, >, or = for each pair of numbers.

a) 6713 6731

b) 8887 () 8788

c) 1040 () 1400

d) 7878 () 8787

e) 4910 599

f) 5512 5512

3. Circle the greater number in each pair.

399

a) 2929

- b) 4525
- 4555

c) 7770 7707

- d) 6999
- 6877

4. Circle the smaller number in each pair.

a) 5789 5897

- b) 7008
- 7018

- c) 3060
- 3076

- d) 4974
- 4763

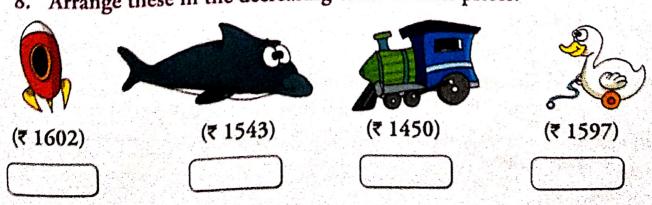
Spot Check

Make five problems like question 1 and give them to your friends to solve.



5.	Arr	ange i	n ascer	nding o	order.	
	a)	8355	7054	2903	4705	
	b)	3004	921	9820	5793	
	c)	6275	8450	9146	8980	
	d)	9186	5506	8920	9578	
6.	Arı	range i	n desc	ending	g order.	garan jurg sit gerjan majar nagar helipitat kan ja di Nagar kan helipitat kan
	a)	6430	5540	5397	942	
	b)	8407	415	955	6565	
	c)	313	3585	9198	3889	
	d)	3602	4765	4796	7796	

- 7. Solve the following problems.
 - a) Sahil has 1398 cows on his farm. Kabir has 1938 cows. Who has more cows on his farm?
 - b) Vani's family has a chicken farm. Her family gathers 1039 eggs on Monday. They gather 989 eggs on Tuesday. Which day did they gather fewer eggs?
 - c) A train is carrying 5067 women, 6230 men and 2897 children. Who are the most in number women, men or children?
- 8. Arrange these in the decreasing order of their prices.



Making numbers with the given digits

Example: Make different 4-digit numbers with the digits 7, 8, 3 and 5. Do not repeat digits. Thus, 7835 is allowed, but 7735 is not.

3857, 3875, 3758, 3578, 3587, 8537

Spot Check

Make the greatest 4-digit number reusing the digits 5, 4, 7, 9.

To get the largest number, write the greatest digit 8 in the thousands place, then the next greatest digit 7 in the hundreds place and so on. Thus, 8753 is the greatest number.

To get the smallest number, write the smallest digit 3 in the thousands place, the next smallest digit 5 in the hundreds place and so on. Thus, 3578 is the smallest number.

The greatest number is formed by writing the digits in descending order.

The smallest number is formed by writing the digits in ascending order.

Maths Tip

While forming number using digits with 0 as one of the digits, never start the number with 0.

Exercise 7

 Use the given digits without repetition and make the greatest and the smallest 4-digit numbers.

Greatest 4-digit number

Smallest 4-digit number

a) 5, 8, 7, 4

b) 9, 7, 8, 1

c) 4, 6, 2, 0

d) 1, 7, 6, 3

2. Form the greatest and the smallest 4-digit numbers by using any digit twice.

Greatest 4-digit number

Smallest 4-digit number

a) 4, 6, 7

b) 9, 0, 1

c) 0, 2, 7

- d) 8, 5, 3
- 5, 3
- 3. Write the greatest and the smallest 4-digit numbers using any four different digits.
 - a) 7 in the ones place

Smallest Grea



b) 4 in the tens place

- Smallest 4
- Greatest 4

- c) 9 in the hundreds place
- Smallest 9
- Greatest 9

- d) 1 in the thousands place
- Smallest
- Greatest

Rounding off numbers

When you round off, you find the closest multiple of ten (or one hundred, or any other place value) to your number.

Numbers can be rounded off to the tens place, hundreds place, thousands place, and so on.

Rounding off to the nearest 10

When a number is rounded to the tens place, the final value has a zero for the ones place.

In a 2-, 3- or 4-digit number, if the digit in the ones place is 0, 1, 2, 3, or 4, then the number is rounded off by keeping the number to the same ten. If the digit in the ones place is 5, 6, 7, 8 or 9, then we round off the number to the higher ten.

Examples:

- ❖ 63 will be rounded off to 60 (as the digit in the ones place is less than 5, so we round off to the same ten).
- 236 will be rounded off to 240 (as the digit in the ones place is greater than 5, so we round off to a higher ten).
- ❖ 5891 will be rounded off to 5890 (as the digit in the ones place is less than 5, so we round off to the same ten).

Rounding off to the nearest 100

When a number is rounded to the hundreds place, the final value has a zero in the tens place and the ones place each.

In a 3- or 4-digit number if the digit in the tens place is 0, 1, 2, 3, or 4, the number is rounded off by keeping the number to the same hundred.

If the digit in the tens place is 5, 6, 7, 8 or 9, we round off the number to the higher hundred.

Examples:

- ❖ 421 will be rounded off to 400 (As the digit in the tens place is less than 5, so we round off to the same hundred).
- ❖ 576 will be rounded off to 600 (As the digit in the tens place is greater than 5, so we round off to a higher hundred).

Rounding off to the nearest 1000

When a number is rounded to the thousands place, the final value has a zero in the hundreds, tens and the ones places.

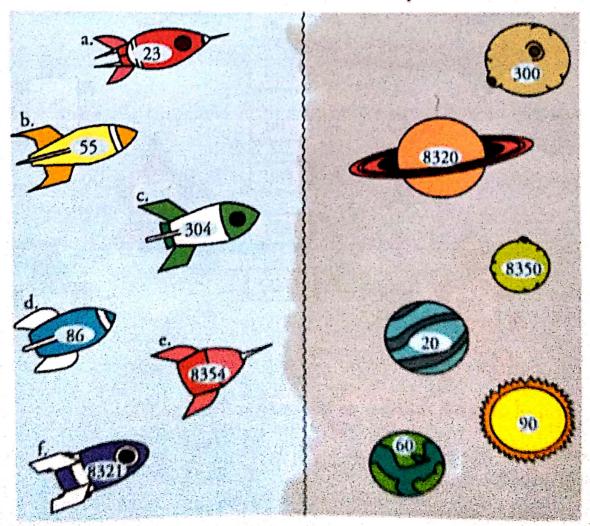
In a number if the digit in the hundreds place is 0, 1, 2, 3, or 4, then the number is rounded off by keeping the number to the same thousand. If the digit in the hundreds place is 5, 6, 7, 8 or 9, then we round off the number to the higher thousand.

Examples:

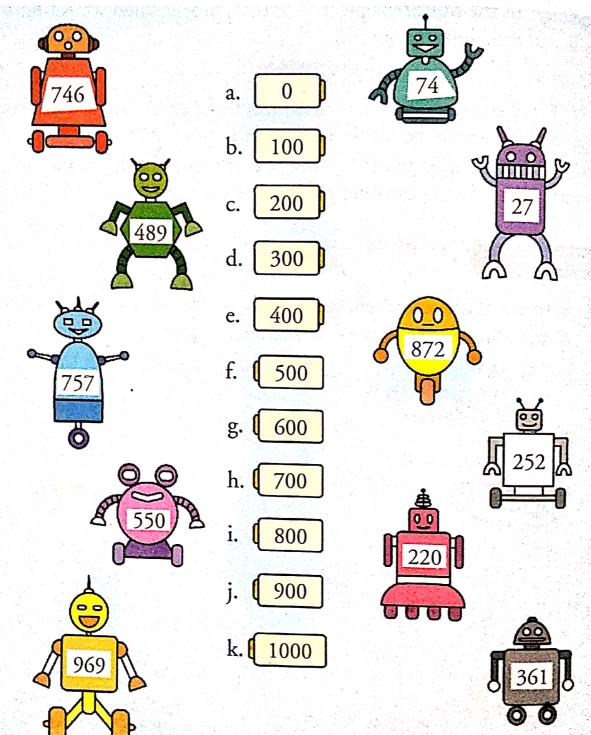
- 3213 will be rounded off to 3000 (As the digit in the hundreds place is less than 5, so we round off to the same thousand).
- 8773 will be rounded off to 9000 (As the digit in the hundreds place is greater than 5, so we round off to a higher thousand):

Exercise 8

Round off the numbers written on the rockets to the nearest tens.
 Draw a line from each rocket to the correct planet.



2. Round off the numbers on the robots to the nearest hundred. Draw a line from each robot to the correct battery.

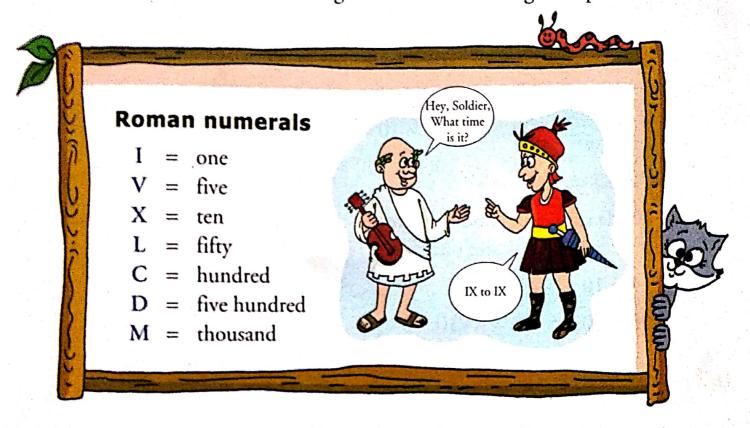


3. Round off each number to the nearest thousand.

- a) 2465 _____
- c) 4902 ____
- e) 8837 ____
- b) 9345 __
- d) 6123 ____
- f) 3391 ____

Roman numerals

Roman numerals are written using the letters of the English alphabet.



There are four basic principles for reading and writing Roman numerals:

1. A letter repeats its value that many times (XXX = 10 + 10 + 10 = 30, CC = 100 + 100 = 200, etc.). A letter can be repeated maximum three times.

Remember

V, L and D cannot be repeated.

2. If a letter of smaller value is written after a letter of greater value, then we add the value of the two letters.

$$XII = 10 + 1 + 1 = 12$$

LII =
$$50 + 1 + 1 = 52$$

$$LXX = 50 + 10 + 10 = 70$$

$$MCC = 1000 + 100 + 100 = 1200$$

If a letter of smaller value is written before a letter of greater value, then
we subtract the value of the smaller letter from the value of the larger
letter.

$$IX = 10 - 1 = 9$$

$$IV = 5 - 1 = 4$$

$$XC = 100 - 10 = 90$$

$$CM = 1000 - 100 = 900$$

4. While expressing numbers greater than 10, the numbers must first be broken into tens and ones.

$$14 = 10 + 5 - 1 = XIV$$

 $18 = 10 + 5 + 3 = XVIII$



1. Write the Roman numerals for the following.

- a) 17 _____
- b) 54 _____
- c) 19 _____
- d) 27 _____

e) 35 _____

f) 59 _____

2. Write the number form of the Roman numerals.

- a) XV _____
- b) CVI _____
- c) XXIV _____
- d) LIX _____
- e) XXXVIII _____
- f) LX _____

Life Skills

EXPERIENTIAL LEARNING

Use the digits 0, 1, 8 and 9 to get India's first 24-hour, tollfree, phone outreach service for service CHILDLINE India. Visit now childline india.org. in to find out more about this organisation and check its number.





Fill in the blanks.

1.	What is 1 more than 999?
	What is 1 less than 8999?
3.	Which smallest 4-digit number can be formed using the digits 1, 2, 2 and 2?
4.	What will be the predecessor of an even number? Odd or even
5.	Will the face value of 5 in 354 be different than in 345 or the same?
6.	Which of the numbers, 2099, 2499 and 2999 will not be rounded to 2000 when rounded to the thousands place?
7.	Which is a meaningless Roman numeral? XII or IIX.
8.	Which number is greater – 999 or 1009?
9.	Can we get an odd number just after an odd number? Yes or No

Maths Lab Activity

EXPERIENTIAL LEARNING

Objective: Create a number and learn about its place and face values.

10. What is the short form of 8000 + 80?

Material needed: Dice for the class.

Preparation: The teacher will divide the class in pairs and give each pair a dice.

Procedure: 1. Each student in a pair will roll the dice alternately to create a 4-digit number.

2. The first number will be written in the ones place, second in the tens and so on, in their notebooks.

- 3. After creating the number, the students will write the place and face value for each digit.
- 4. Each pair can conduct this exercise as many times as required.





EXPERIENTIAL LEARNING

Tick (\checkmark) the correct option.

following is her number?

a) 6548

1.	The numeral for	four thousand f	ive is				
	a) 405	b) 45	c)	4050	d) 40)05	
2.	The place value	of the digit 9 in	8490 i	S			
	a) 9	b) 90	c)	100	d) 10)	
3.	The numeral for	4000 + 60 + 3 i	S				
		b) 4063		4603	d) 43		
4.	Savita has made a 4-digit number using the digits 6, 5, 4, and 8. Her number has the smallest digit at the hundreds place. Which of the						

c) 8465 d) 4586 In which of the following numerals, the place value of the underlined

digit is not equal to its face value? a) 64<u>0</u>7

b) 2198

b) 5648

c) 8471

d) 6215

6.	W	hich is	the sm	alles	t number	in the fo	ollowin	g?		
		5264			5624				d)	5462
7.	oro	hich of der?	f the fo	ollow	ing sets	of numb	ers is	in the c	orre	ct ascendin
	a)	6576, 6	6657, 6	675	, 6567		b) 65	67, 657	6, 6	657, 6675
	c)	6576, 6	5567, 6	675	, 6657		d) 65	67, 665	7, 6	756, 6576.
8.	The	e greate	st 4-dig	git nı	ımber usi	ng differ	ent digi	ts amon	g the	e following i
	a)	9988		b)	9876	c)	9786		d)	9687
9.	W	nich of	the foll	lowi	ng is a va	lid Roma	an num	eral?		
	a)	IXIV		b)	XIXX	c)	XVX		d)	XIX
10.	Th	e corre	ct Rom	an r	numeral f	or 39 is				ista q
	a)	IXXL		b)	XXXIX	c)	IXL		d)	XXVIIII
11.	428	36 rour	ided of	f to	the neare	st hundr	eds give	es		
	a)	4200		b)	4280	c)	4300		d)	5000
12.	Roi	und off	6245	to th	e nearest	tens.				
	a)	6250		b)	6240	c)	6260		d)	6270
										The state of the s