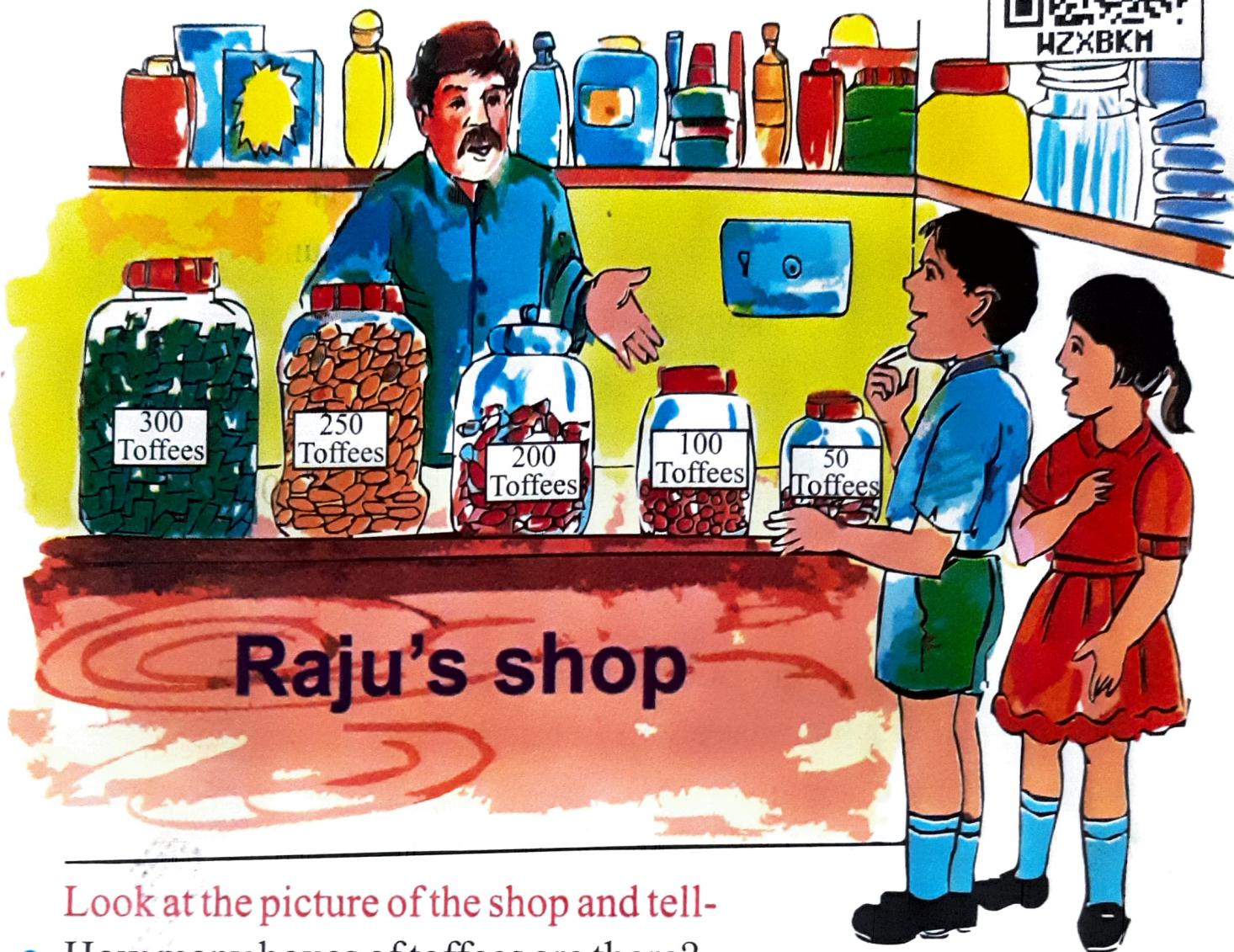


House of Numbers



Raju's shop

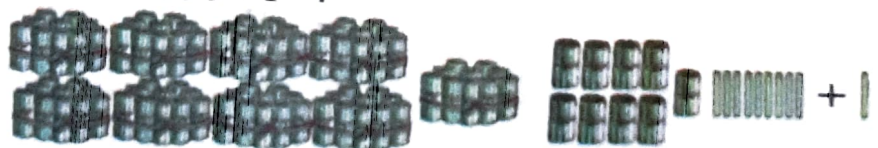
Look at the picture of the shop and tell-

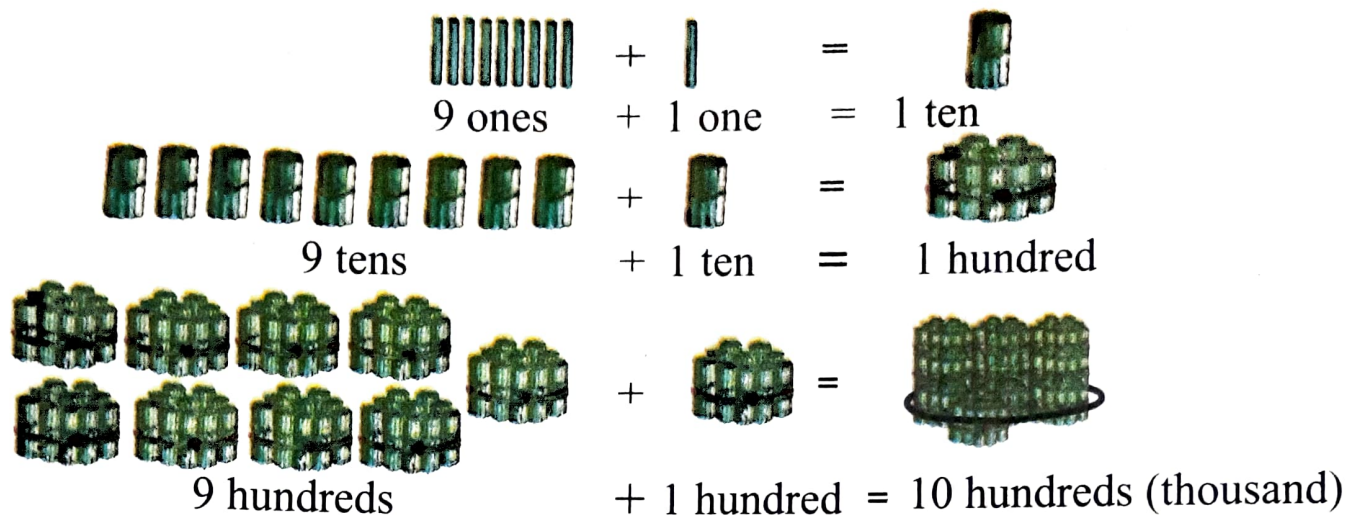
- How many boxes of toffees are there?
- How many toffees are there in the smallest box?
- How many toffees are there in the biggest box?
- How many toffees are there in all the boxes?
- If 99 toffees are added to total number of toffees, How many toffees will be there? $900+99=999$

If one more toffee is added to this, how many toffees will be there in total?

Let us do and see-

$$999+1=?$$



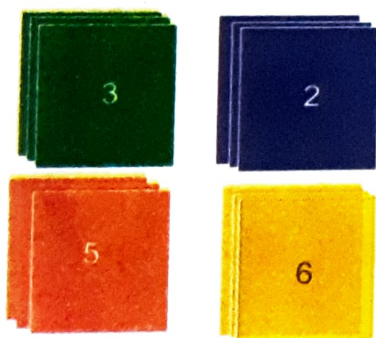


- Adding 9 ones to 1 ones = 1 Ten
- Adding 9 tens to 1 ten = 10 Tens or 1 Hundred
- Adding 9 hundreds to 1 hundred = 10 Hundreds
- 10 hundreds is called 1 thousand, it is written as 1000 and read as one thousand

Now let us play-

Make groups of four students each.

Place cards with digits 0 to 9 in front of them. Make the children understand that all the red coloured cards are of thousands. All the green coloured cards are of hundreds, yellow coloured cards are of tens and all the blue coloured cards are of ones.



The digit on the red card indicates as many thousand as the digit it self. Similarly, the digit on the green card indicates hundreds, the digit on the yellow card indicates tens and the digit on the blue card indicates ones.

Pick one card of each colour. See that each team has four cards of different colours. If it is not so, take the help of teacher. The four groups will sit separately. Each group will now put the cards together and find out the number formed.

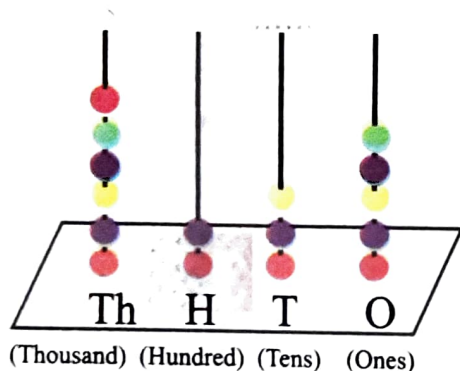
- Which digit is written on the red card thousands.
- Which digit is written on the green card hundreds.
- Which digit is written on the yellow card tens.
- Which digit is written on the blue card ones.

Write the number which is formed by adding digits of all the above mentioned cards

In words

• After this, children of the different groups will exchange their cards and write the new numbers which are formed. One group will check the number of the other group. If the number is incorrect, they will correct it.

Let us form numbers on abacus-



Look at the abacus and tell-

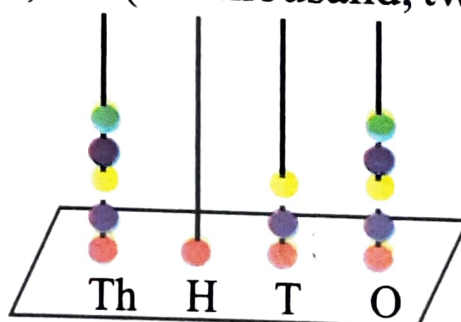
- How many beads are there in ones rod? ...
- How many beads are there in tens rod?
- How many beads are there in hundreds rod?
- How many beads are there in thousands rod?

Now, which number is formed?

6 thousands + 2 hundreds + 3 tens + 5 ones

or $6000 + 200 + 30 + 5 = 6,235$ (Six thousand, two hundred thirty five.)

Now, look and write-

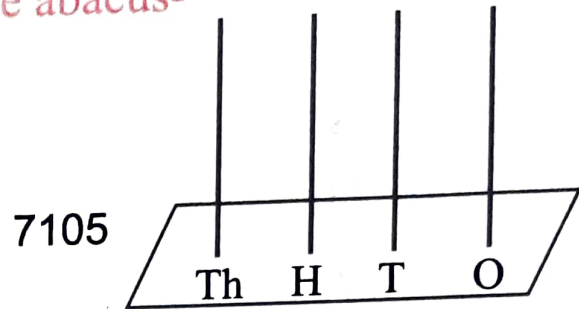
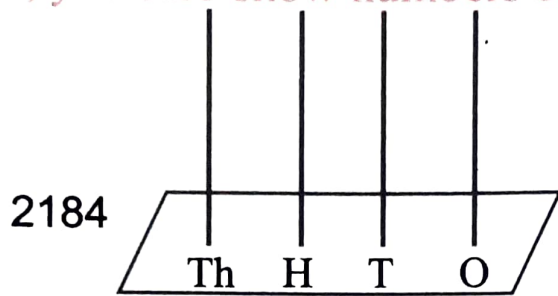


The number formed—

..... thousands + hundreds + tens + ones

or + + + =

Now, you also show numbers on the abacus-



Let us make numbers from cards

Make four types of cards-

1000	2000	3000	.....	9000
100	200	300	.....	900
10	20	30	.....	90
1	2	3	.....	9

now, we make number 3,285 –

first of all take a card on which 3,000 is written on the top of the first card, keep a card on which 200 is written in such a manner that all the zeros after 3 gets covered.

On the top of these cards, keep the card on which 80 is written in such a manner that all the zeros after 2 gets covered.

On the top of these cards, keep the card on which 5 is written, in such a way that the zero written after 8 gets covered.

The number formed $3,000 + 200 + 80 + 5 = 3,285$ (Three thousand, two hundred eighty five.)

Now, you form numbers using different cards of this type and write.

➤ Give enough practise to develop the concept of ones, tens, hundreds and thousands.

Let us understand the place value of numbers

$$\begin{array}{rccccccccccc} \text{In number } 3285 & 3\text{Th} & + & 2\text{H} & + & 8\text{T} & + & 5\text{O} & & & & \\ & 3 \times 1000 & + & 2 \times 100 & + & 8 \times 10 & + & 5 \times 1 & & & & \\ & 3000 & + & 200 & + & 80 & + & 5 & = & 3285 & & \end{array}$$

In this way-

In the number 3285

Place value of 3 is 3000

Place value of 2 is 200

Place value of 8 is 80

Place value of 5 is 5

Now you write the place value of the digit asked in the following number-

Digit	Place Value
5 in 5762	
6 in 3765	

Greater and Smaller numbers-

Which number is greater between 578 and 421? How will you find out?

The number in which the digit at hundreds place is greater, will be the greater number.

Therefore, $578 > 421$

We can recognize the greater and smaller number as follows-

1. First find out the number of digits in the given number. If there is difference between the number of digits of both the number, then the number having more digits is the greater number.

For example- $603 > 45$

2. If the number of digits in both the numbers are the same, we compare the digits at the left most place. The number which has greater digit at this place is the greater number.

For example- $768 > 689$

To make the children understand that if zero is placed on the left of any number, it has no meaning. Therefore, while counting number of digit in a number zero on the left side is not included.

3. If the left most digits are the same, compare the digits just on their right.

For example- $575 > 538$ or $578 > 576$

Now you also do it- $3165 \square 8943$, $4382 \square 2675$

Let us see-

The order of the numbers- 3805, 4112, 3168

Numbers in ascending order- 3168, 3239, 3805, 4112

Numbers in descending order- 4112, 3805, 3239, 3168

Think of some more numbers and write them in-

ascending order,,,

descending order,,,

We have learnt

- 10 ones make 1 tens, 10 tens make 1 hundreds, 10 hundreds make 1 thousand. To write one thousand three zeros are added to the right side of 1.
- The place value of any digit in the number is the value of the digit at that specific place in the number.



Exercise

1. Write in words-

3435-

5041-

2. Write in figures-

Seven thousand, eight hundred twelve.

Nine thousand, twenty eight.

3. Fill in the blanks-

$$845 = \dots\dots\dots\text{H} + \dots\dots\dots\text{T} + \dots\dots\dots\text{O}$$

$$3754 = \dots\dots\text{Th} + \dots\dots\text{H} + \dots\dots\text{T} \dots\dots\text{O}$$

4. Observe and solve-

$$2364 = 2000 + 300 + 60 + 4$$

$$5432 = \dots\dots + \dots\dots + \dots\dots + \dots\dots$$

$$7085 = \dots\dots + \dots\dots + \dots\dots + \dots\dots$$

$$6328 = \dots\dots + \dots\dots + \dots\dots + \dots\dots$$

5. Fill in the blanks-

$$6000 + 400 + 20 + 1 = \dots\dots\dots$$

$$5 \text{ Thousands} + 6 \text{ Hundreds} + 6 \text{ Tens} + 4 \text{ Ones} = \dots\dots\dots$$

6. Put the correct sign (<, =, >) between the numbers given below-

a. 365	.....	412	b. 678	.....	710
c. 5672	.....	4342	d. 8775	.....	6281
e. 8699	.....	8699	f. 8815	.....	7399

7. Complete the descending and ascending order-

3154, 3155, 3156,,,,, 3161

4335, 4334, 4333,,,,, 4328

8. Match the correct pair-

4301	8000 + 400 + 70 + 0
6052	9000 + 200 + 50 + 4
9254	4000 + 300 + 0 + 1
8470	6000 + 0 + 50 + 2