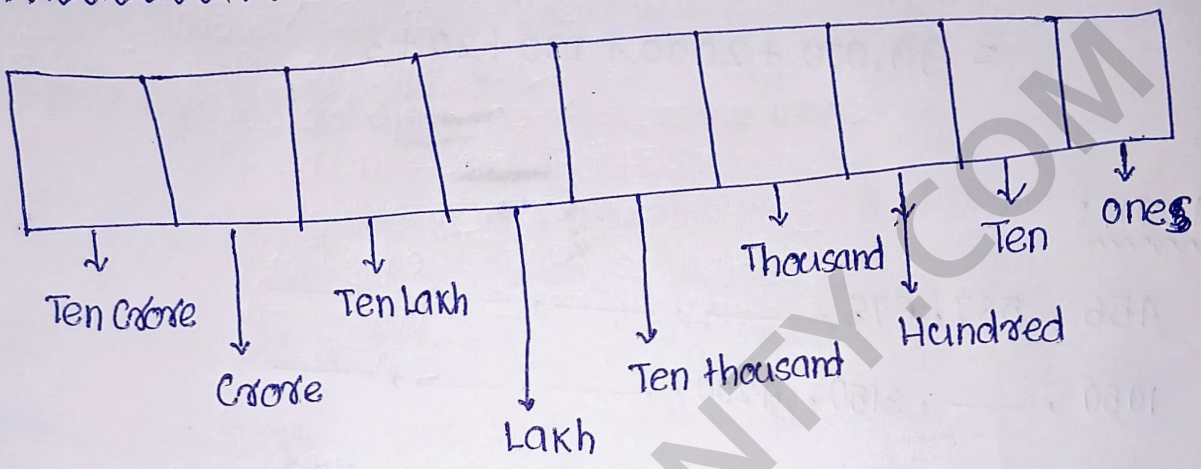
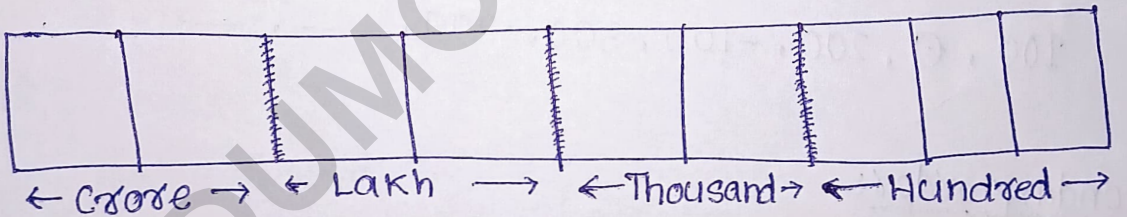
CHAPTER-01

We the Travellers-01

Hindu-Arabic place value system:



Name of a Number:



Example: (i) 1,2 3,4 5,6 7 2 : One Crore twenty-three Lakh fourty-five thousand Six hundred Seventy-two.

(ii) 25,67,82,197 : Twenty-five crore. Sixty-Seven Lakh eighty-two thousand one hundred ninety-Seven.

(Prepared by B. Mohanty)

Expanding form

1,380 = 1 thousand + 3 hundred + 8 tens + 0 one's

= 1,000 + 300 + 80 + 0

92,123 = 9 ten thousand + 2 thousand + 1 hundred + 2 tens + 3 ones

= 90,000 + 2,000 + 100 + 20 + 3

Pattern:

(i) 456, 567, 678, ___, ___, ___, ___

(ii) 1050, ___, 3150, 4200, ___, ___, ___

(iii) 100, 201, 302, ___, ___, ___, 706

(iv) 1, 1, 2, 3, 5, ___, ___, ___

(v) 100, 0, 200, -100, 300, -200, ___, ___

Ascending order:

Arranging numbers from smallest and greatest is called an ascending order.
It is also called an increasing order.

Descending Order:

Arranging number from biggest to smallest is called an descending order.
It is also called an decreasing order.

Q1. Arrange the following in ascending order.

(i) 1957, 9157, 5719, 7591, 1579, 5197

(ii) 204162, 221426, 214235, 206142, 224216, 212435

(iii) 49986, 48968, 94868, 46988, 94688

Q2. Arrange the following in descending order.

(i) 391561, 395116, 396151, 391156, 395611

(ii) 161539, 615193, 156139, 619315, 153961

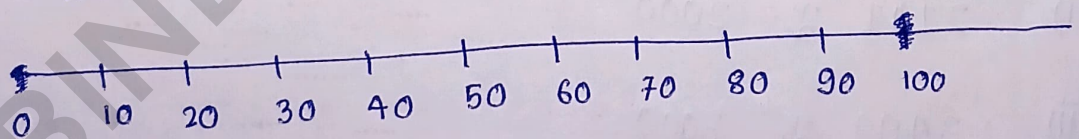
(iii) 20262025, 20622025, 2025026, 2052026, 20202625

NEAREST OF A NUMBER

I. Nearest to Ten: □□

Focus of last two digit

Difference of number is 10 and multiple of Ten.



(i) 525 ≈ 530

(ii) 137 ≈ 140

(iii) 221 ≈ 220

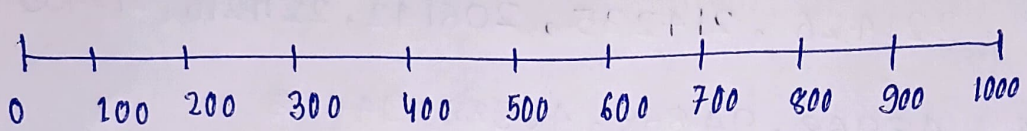
(iv) 225 ≈ 230

(v) 199 ≈ 200

II. Nearest to Hundred:

Focus on last three places

Difference of the number is 100 and multiple of 100.



(i) $1201 \approx 1200$

(ii) $1289 \approx 1300$

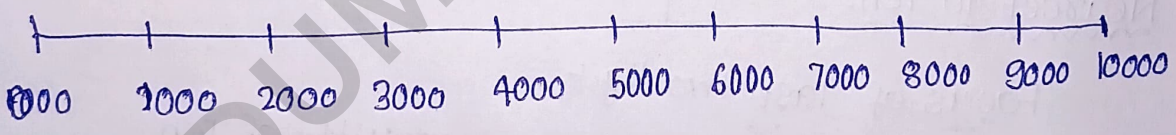
(iii) $1999 \approx 2000$

(iv) $1450 \approx 1500$

III. Nearest to thousand:

Focus on last four places

Difference of number is 1000 and multiple of 1000.



(i) $2101 \approx 2000$

(ii) $3499 \approx 3000$

(iii) $7999 \approx 8000$

(iv) $5500 \approx 6000$

(v) $68500 \approx 6900$

Number	Nearest Tens	Nearest Hundreds	Nearest Thousands
3176	3180	3200	3000
4017	4020	4000	4000
5789	5790	5800	6000
8203	8200	8200	8000

Number Quiz

Follow the following steps:

(i) Take any two different digits

(ii) Make two 2-digits numbers using them

(iii) Subtract the smaller number from bigger Number.

Now, use the two digits in the difference and repeat steps (b) and (c).

Continue this process until you get a 1-digit number.

Example

(a) Consider two digits 3 and 7

We get two number 37 and 73

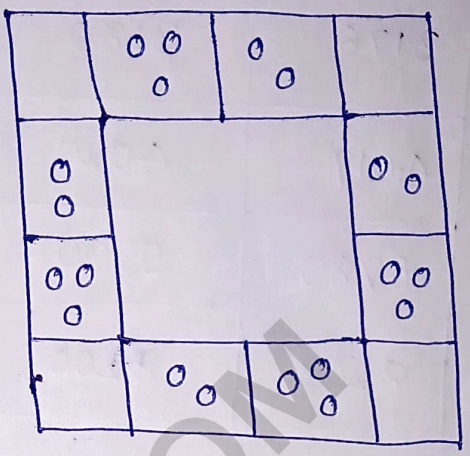
Difference $73 - 37 = 36$

(b) Again $\begin{array}{r} 63 \\ -36 \\ \hline 27 \end{array} \rightarrow \begin{array}{r} 72 \\ -27 \\ \hline 45 \end{array} \rightarrow \begin{array}{r} 54 \\ -45 \\ \hline 9 \end{array}$ ← which is a single digit number

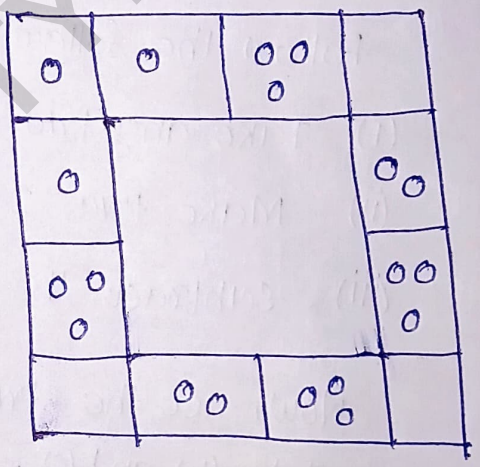
King's Horses

There are 20 horses in a stable as in the figure.

The small circle represent each horse.



(i) If you took 1 horse then arranged remaining 19 horses such that in each side it count 5 horses.



(ii) If you took 1 more horse then arranged remaining 18 horses such that in each side it count 5 horses.

Repeat this process and see upto minimum how many horses you need to arranged in each side to count 5 horses.