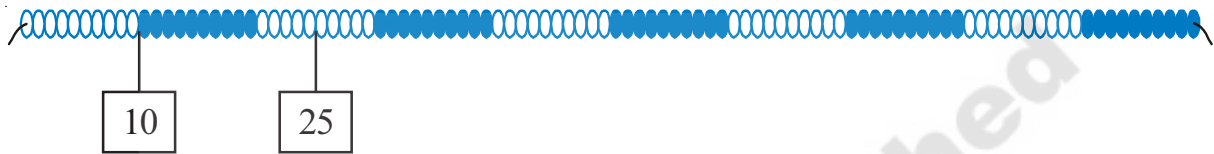


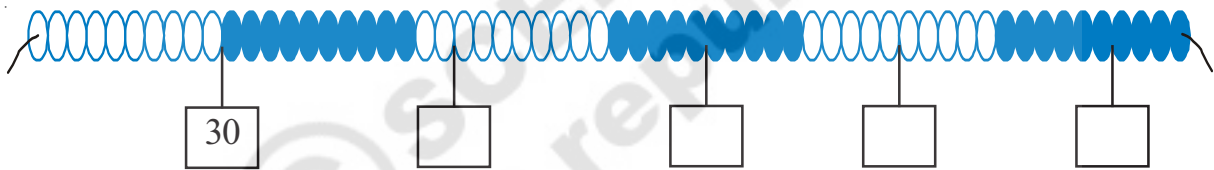
4

Knowing numbers

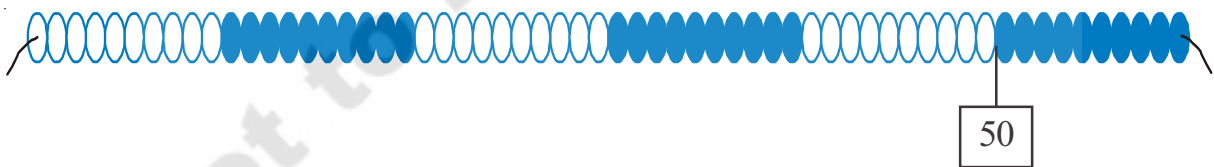
Rama teacher has hung the beads mala in class today. After how many beads is the colour changing in the beads mala? Rama teacher hung a tag after 10 beads and then another after 25 beads. Now can you hang a tag on the beads mala after 50 beads? 75 beads? 100 beads?



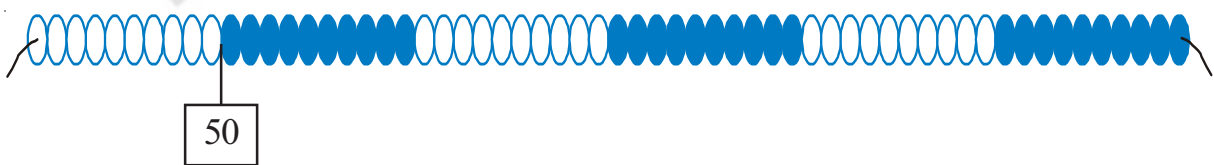
Now identify the numbers and write them on the tags that are hanging on the beads mala.



Now hang some tags 27, 39, 45, 14 on this beads mala.



Hang some more tags 54, 78, 85, 63, 92 on this beads mala.

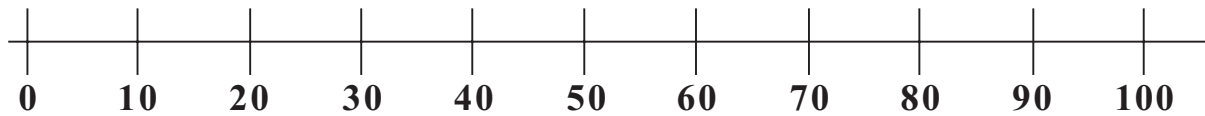


Now make a beads mala of 100 beads, like the one given above and hang number tags of your choice on it.

Sandhya



It is not easy to make the beads mala teacher. I will use this number line

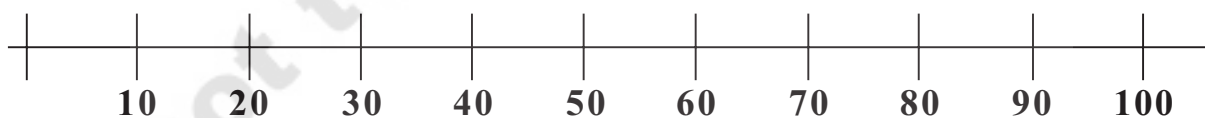


Teacher: How will you show 37 on this line?

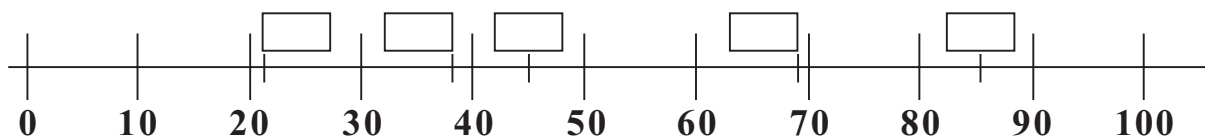
Sandhya: I will place it between 30 and 40. And also much nearer to 40 than 30.



Teacher: Yes, this is a good way of showing it. Now, show me these numbers on the number line- 41, 59, 63, 75, 82, 99. Help Sandhya find these numbers on the number line.



Now, identify these numbers on the number line.



Vaheeda's Family

Given below are the ages of Vaheeda's family members.



Ibrahim (65)



Razia (62)



Rafiq (42)



Nasim (40)



Hameed (38)



Shahida (33)



Vaheeda (15)



Sunir (20)



Fathima (8)



Fahim (12)

- (a) Who is the oldest in the family? _____ Age _____
- (b) Who is the youngest in the family? _____ Age _____
- (c) Who is Ibrahim's elder son? _____ Age _____
- (d) Write the names and ages of the four children, in the order from eldest to youngest.

How much money is there in the Kiddy Bank?

6 children saved the following amounts in their kiddy bank in one month.



Teja ₹ 65	Divya ₹ 27	John ₹ 56	Raheem ₹ 99	Sindhu ₹ 11	Ramu ₹ 80
--------------	---------------	--------------	----------------	----------------	--------------

- (a) How much money did John save? _____
- (b) Who saved more than 50 rupees? _____
- (c) Who saved the most money? _____
- (d) John has only ten rupee notes and one rupee coins. How many ten rupee notes and one rupee coins does he have? _____
- (e) How much money do each of them need to put in their kiddy bank to have 100 rupees?



$$65 + \underline{\hspace{2cm}} = 100$$

$$27 + \underline{\hspace{2cm}} = 100$$

$$99 + \underline{\hspace{2cm}} = 100$$

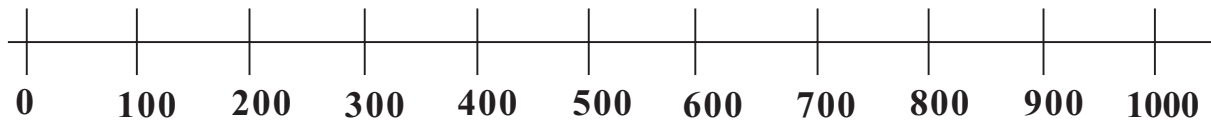
$$11 + \underline{\hspace{2cm}} = 100$$

$$80 + \underline{\hspace{2cm}} = 100$$

$$56 + \underline{\hspace{2cm}} = 100$$

Can we represent numbers more than 100 on a number line?

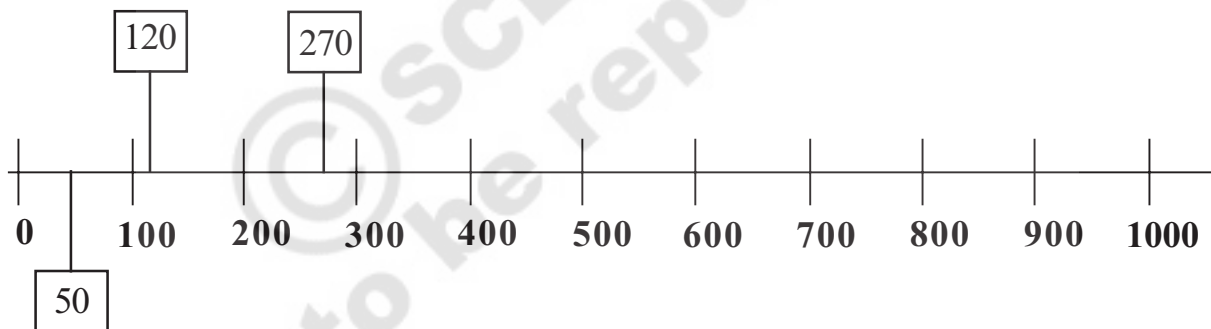
Sandhya had represented earlier lots of numbers upto 100 on the number line. Today she made a different number line.



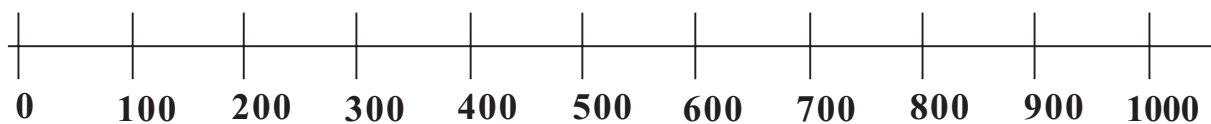
Where will 50 lie on this number line?

It will be right in the middle of 0 and 100. Where will 120 lie? It will lie between 100 and 200. It will be much closer to 100 than 200. What about 270?. It will be between 200 and 300 and will be much closer to 300 than 200.

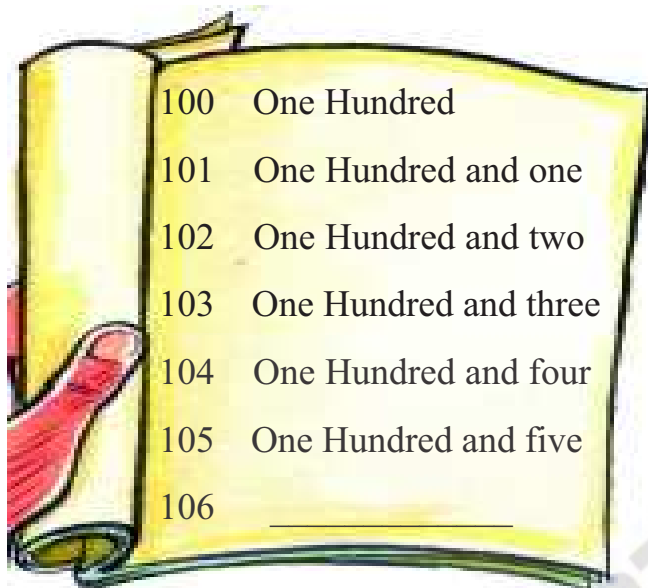
Now can you show 390, 410, 560, 750 on this number line.



Now show 90, 180, 240, 360, 550, 820, 910 on the number line given below.



Madhuri is writing the numbers counting beyond 100 in her notebook.



Meena: You do not need to write all the number names for this. Just remember that 101 is one more than one hundred and is read as one hundred and one. Similarly 105 is five more than one hundred and is read as one hundred and five and 127 is twenty seven more than one hundred and is read as one hundred and twenty seven and so on.

Now write the number names for the following numbers.

137	:	_____
146	:	_____
151	:	_____
168	:	_____
179	:	_____
185	:	_____
198	:	_____

Do This

1. Write the number names of the following numbers.

(a) 247 : two hundred and forty seven

(b) 499 : _____

(c) 391 : _____

(d) 565 : _____

(e) 444 : _____

(f) 288 : _____

(g) 507 : _____

(h) 307 : _____

(i) 790 : _____

(j) 972 : _____

2. Write the missing numbers in the given boxes.

(a)

100	125	150							
-----	-----	-----	--	--	--	--	--	--	--

(b)

200	210					260			290
-----	-----	--	--	--	--	-----	--	--	-----

(c)

300	320					420			
-----	-----	--	--	--	--	-----	--	--	--

(d)

400	450					700			
-----	-----	--	--	--	--	-----	--	--	--

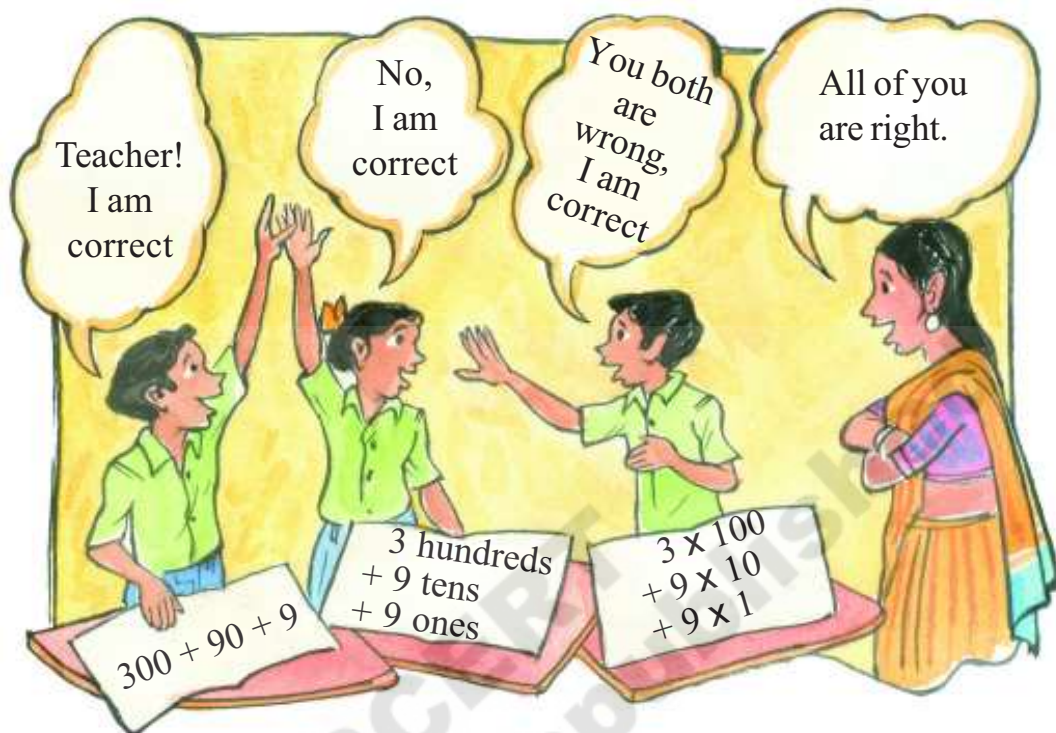
(e)

100	200					700			1000
-----	-----	--	--	--	--	-----	--	--	------

Write the appropriate number in the box. One example is given.

462

The teacher asks students to write 399 in its expanded form. Sidhu, Meena and Amar write differently.



$$\begin{aligned}
 \text{So, } 399 &= 300 + 90 + 9 \\
 &= 3 \text{ hundreds} + 9 \text{ tens} + 9 \text{ ones} \\
 &= 3 \times 100 + 9 \times 10 + 9 \times 1
 \end{aligned}$$

Do This

1. Expand the numbers given below in all three ways.

(a) $862 =$ _____ $+$ _____ $+$ _____
 _____ $+$ _____ $+$ _____
 _____ $+$ _____ $+$ _____

(b) $602 =$ _____ $+$ _____ $+$ _____
 _____ $+$ _____ $+$ _____
 _____ $+$ _____ $+$ _____

2. Encircle the place value of the under lined digit in the number.

- (a) $\underline{5}$ 7 1 5, 500, 50
(b) 1 4 $\underline{8}$ 800, 80, 8
(c) 4 $\underline{7}$ 1 70, 700, 7

Shailaja and Ramu were playing with number cards of 1 to 9.



Now can you make numbers using the following digits.

- (a) 4, 5 : _____
(b) 7, 6 : _____
(c) 1, 2 : _____
(d) 9, 3 : _____

Shailaja: Now lets use three cards.

I have made three numbers- 723, 237 and 372 by using the three digits 7, 2 and 3.

Ramu : I can make three more numbers with the digits.

Which are they? _____, _____, _____



Now can you make all possible numbers using these digits.

(a) 4, 5, 6 : _____, _____, _____, _____, _____, _____

(b) 7, 1, 5 : _____, _____, _____, _____, _____, _____

(c) 9, 2, 8 : _____, _____, _____, _____, _____, _____

The top bowlers of test cricket

The bowlers who have taken the maximum number of wickets in test cricket upto 2012 are given below.

Name of Bowler	Wickets	Country
Anil Kumble	619	India
Kapil Dev	434	India
Murlidharan	800	Sri Lanka
Shane Warne	708	Australia
Richard Hadlee	431	New Zealand



Answer the following:

(a) Which bowler has taken the highest number of wickets? To which country does he belong? _____

(b) How many bowlers have taken more than 600 wickets? _____

(c) Write the names of the bowlers in the order of wickets taken, from lowest to highest. _____

(d) How many wickets less are the following bowlers from 1000 wickets?

Murlidharan 800 + _____ = 1000

Shane Warne 708 + _____ = 1000

Anil Kumble 619 + _____ = 1000

Try This





- How many 100s are there in a 1000?
- How many 200s are there in a 1000?
- How many 500s are there in a 1000?

Now lets take even longer jumps.

- | | | | | | | | |
|------|------|--|--|--|--|------|--|
| 1000 | 1500 | | | | | 4000 | |
|------|------|--|--|--|--|------|--|
- | | | | | | | | |
|------|------|--|--|--|--|------|--|
| 2000 | 3000 | | | | | 8000 | |
|------|------|--|--|--|--|------|--|
- | | | | | |
|------|------|--|--|--|
| 2000 | 4000 | | | |
|------|------|--|--|--|

Write the appropriate number in the box.

				<div style="border: 1px solid gray; width: 100px; height: 30px; background-color: #cccccc;"></div>
---	---	---	---	--

				<div style="border: 1px solid gray; width: 100px; height: 30px; background-color: #cccccc;"></div>
---	---	---	---	--



Exercise

- The highest scores of batsmen in an innings in one day International cricket match till 2012 are given below.

Name of Batsman	Runs	Country
Saeed Anwar	194	Pakistan
Sachin Tendulkar	200	India
Virendra Sehwag	219	India
M.S. Dhoni	183	India
Vivian Richards	189	West Indies

- (a) Who has scored the highest number of runs in an innings in one day International cricket? To which country does he belong?
- (b) Which batsmen have scored runs between 100 and 200 ?
- (c) which batsmen scored have double century? (century = 100)
- (d) Write the names of batsmen in the order of their runs, scored, from highest to lowest.

2. Given below is the approximate weight of some animals.

Name	Weight (in kgs)
Horse	500
Goat	30
Sheep	45
Pig	120
Dog	15
Wolf	80
Bear	350



- (a) As per above table, which is the heaviest animal?
 - (b) Which animals are more than 100 kg?
 - (c) Write the names of animals in the order of their weights, from the lightest to the heaviest.
 - (d) Weight of how many goats will be equal to a pig's weight?
 - (e) Weight of how many dogs will be equal to a sheep's weight?
3. I am a two digit number with 6 in the units place and 1 in the tens place. Who am I?
 4. I lie between 30 and 40. The digit in my units place is the same as the digit in my tens place. Who am I?
 5. Find all the two digit numbers, whose digit in the tens place is twice the digit in the units place.

6. Find all the two digit numbers having the same digit in the units and tens place.
7. I am a three digit number. The digit in my hundreds place is 6, the digit in my tens place is 0 and the digit in my units place is 9. Who am I?
8. Find all the three digit numbers whose digit in the hundreds place is three times the digit in the units place and the digit in the tens place is 1.
9. Find all the numbers that lie between 500 and 600 whose digit in the units place is the same as the digit in the tens place.
10. Gauri has 1 thousand and 2 ten rupee notes. How much money does she has?
11. Write the expanded forms of the following numbers.

(a) $347 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

$\underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

$\underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

(b) $804 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

$\underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

$\underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

(c) $532 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

$\underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

$\underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

12. Fill the blanks appropriately.

(a) 456 : four hundred and fifty six

(b) 631 : _____

(c) _____ : eight hundred and seventy six

(d) _____ : nine hundred and sixty eight

13. Which are the largest and smallest three digit numbers that you can make with these digits?

(a) 7, 6, 3

(b) 3, 4, 2, 9