



## ACTIVITY 1

### Materials required:

0 to 4 number cards (8 sets).

Step 1 :

Form small groups with less number of students.

Step 2 :

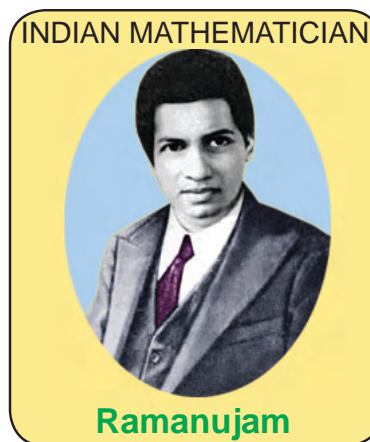
Give 2 sets of number cards to each group.

Step 3 :

Using the number cards, form two 3-digit numbers and add them.

Step 4 :

The group which worked out more problems correctly is the winner group. The teacher can award the winner group as



**Ramanujam group**



### Note to the teacher

**Tell the interesting facts about great mathematician Ramanujam.**

## Statement problems



### Exercise 3

In a parking place there are 275 scooters and 112 cars.

How many vehicles are there totally ?



$$\text{Scooters} = 275$$

$$\text{Cars} = 112$$

$$\text{Total vehicles} = \boxed{\phantom{000}}$$

A fruit seller sold 195 apples, 287 mangoes and 35 bananas.

How many fruits did he sell?

$$\text{Apples} = 195$$

$$\text{Mangoes} = 287$$

$$\text{Bananas} = 35$$

$$\text{Sold fruits} = \boxed{\phantom{000}}$$



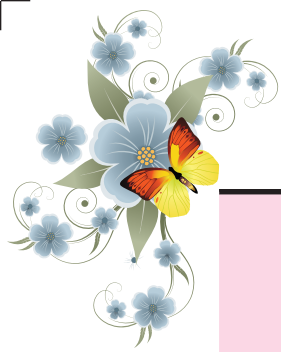
In a train, a compartment is carrying 132 people. Another compartment is carrying 129 people. How many people are there in both the compartments?



$$\text{First compartment} =$$

$$\text{Second compartment} =$$

$$\text{Total number of people} = \boxed{\phantom{000}}$$



In a school 456 students like to play cricket and 395 students like to play foot ball. How many students altogether like to play in the school?



Cricket =

Football =

Total Students =

In a library there are 427 story books, 152 college books and 133 engineering books. How many books are there totally?

Story books =

College books =

Engineering books =

Total books =



Exercise 4

Do the statement problems in your note book.

1. A tailor bought 125 white buttons and 165 red buttons. How many buttons did the tailor buy?

2. A book seller supplied 789 Tamil books and 149 English books to a library. How many books did he supply to the library?

3. In a grove there are 279 coconut trees and 387 mango trees. How many trees are there in the grove?



Date:.....

**1) Add the following:**

$$\begin{array}{r} 3 \quad 1 \quad 2 \\ + 4 \quad 6 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 3 \quad 4 \\ + 4 \quad 3 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 7 \quad 6 \\ + 4 \quad 0 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 4 \quad 8 \\ + 3 \quad 2 \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 0 \quad 3 \\ + 1 \quad 5 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 8 \quad 5 \\ + 1 \quad 2 \quad 9 \\ \hline \end{array}$$

**2) Express the following in numerals and add them.**

a) One hundred eighty, Four hundred sixty five.

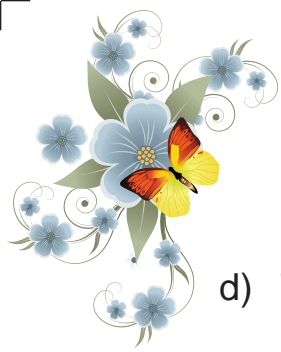
$$\begin{array}{r} 1 \quad 8 \quad 0 \\ + 4 \quad 6 \quad 5 \\ \hline \end{array}$$

b) Four hundred ten, Two hundred ninety five.

$$\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \\ + \phantom{0} \phantom{0} \phantom{0} \\ \hline \end{array}$$

c) Five hundred ninety seven,  
Three hundred thirty two.

$$\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \\ + \phantom{0} \phantom{0} \phantom{0} \\ \hline \end{array}$$



d) Two hundred seventy nine,  
Six hundred forty one.

+

e) Three hundred eighty two,  
Two hundred ninety one.

+

**3) Answer the following statement problems.**

a) In a shop 101 dresses were sold on Monday and 221 dresses were sold on Tuesday. How many dresses were sold in two days?

b) In a village, there are 272 men, 231 women and 211 children. What is the total population of the village?

c) The principal of a school gave 111 medals to those who had done well in sports and 99 medals to those who had done well in exams. Altogether, how many medals did the principal give?

*Comments*

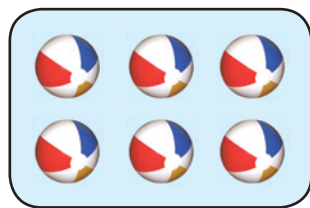
Teacher's signature

## 5

## SUBTRACTION

## Recall

In the previous class, we have studied about the subtraction.



Balls in all

6

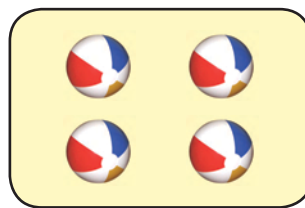
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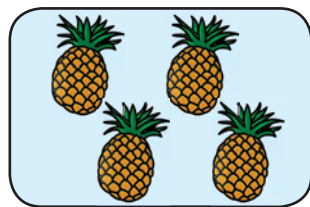
Take away

2

=



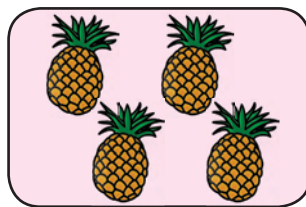
Balls left



Pine apples in all

4

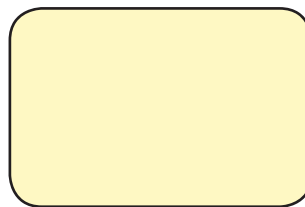
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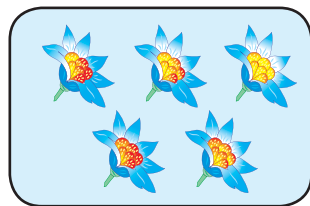
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4

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Pine apples left



Flowers in all

5

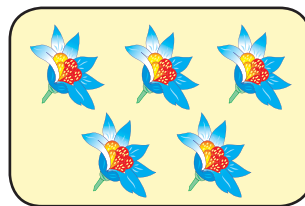
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Take away

0

=



Flowers left





### ACTIVITY 1

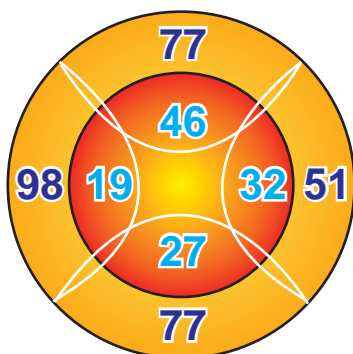
Colour the subtraction problems that give you the number in the first column.

4	$10 - 3$	$10 - 6$	$9 - 5$	$5 - 4$
8	$9 - 1$	$10 - 3$	$8 - 1$	$10 - 2$
2	$6 - 4$	$7 - 2$	$2 - 1$	$5 - 3$
5	$6 - 1$	$10 - 4$	$7 - 6$	$10 - 5$
6	$7 - 1$	$10 - 3$	$8 - 1$	$9 - 3$
3	$6 - 2$	$7 - 4$	$5 - 2$	$9 - 4$

MATHEMATICS



### ACTIVITY 2



Frame subtraction problems from the numbers .

**Example**

5	1
3	2
1	9

Kiruba framed the above problem and got the answer correctly.

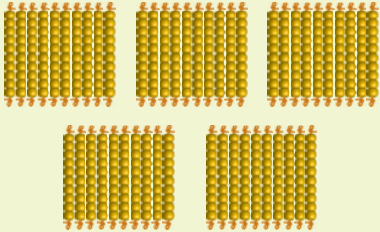
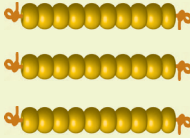
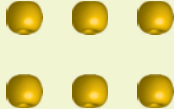
How many problems can you make? Do it in your note book !



## Subtraction of 3 digit numbers (without regrouping)


**Subtract :**

$$\begin{array}{r} 536 \\ - 321 \\ \hline \hline \end{array}$$

H	T	O
		
5	3	6

**Step 1 :** Subtract ones :

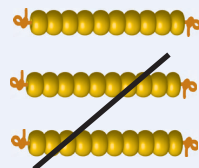
H	T	O
5	3	6
- 3	2	1
		5



6 ones - 1 ones = 5 ones  
Put 5 in ones place

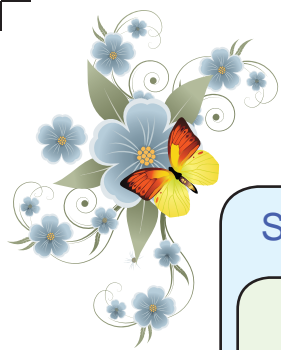
**Step 2 :** Subtract tens :

H	T	O
5	3	6
- 3	2	1
1	5	



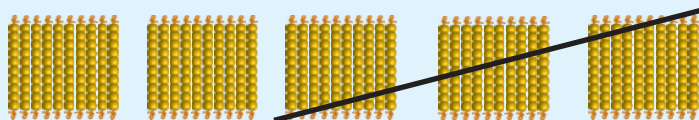
3 tens - 2 tens = 1 ten  
Put 1 in tens place.





**Step 3 : Subtract hundreds :**

H	T	O
5	3	6
− 3	2	1
2	1	5



5 hundreds − 3 hundreds = 2 hundreds

Put 2 in hundreds place

5	3	6
− 3	2	1
-----		
2	1	5
-----		



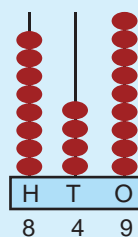
**Keep in mind :**

In subtraction, first we subtract ones, then tens and hundreds in order.

MATHEMATICS

**Subtraction through spike abacus :**

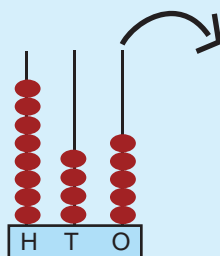
H	T	O
8	4	9
− 5	2	4



Step 1 :

Subtract ones:

H	T	O
8	4	9
- 5	2	4
		5

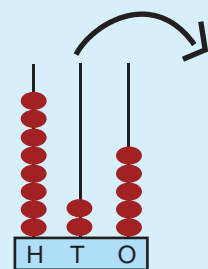


We take 4 beads from ones place. 5 beads remain in ones place.  
 $9 \text{ ones} - 4 \text{ ones} = 5 \text{ ones}$ .  
Write 5 in ones place.

Step 2 :

Subtract tens:

H	T	O
8	4	9
- 5	2	4
	2	5

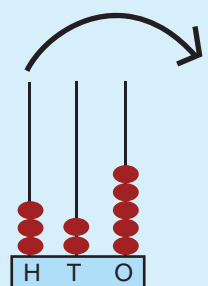


Take 2 beads from tens place. 2 beads remain in tens place.  
 $4 \text{ tens} - 2 \text{ tens} = 2 \text{ tens}$ .  
write 2 in tens place.

Step 3 :

Subtract hundreds:

H	T	O
8	4	9
- 5	2	4
3	2	5



Take 5 beads from hundreds place. 3 beads remain in hundreds place.  
 $8 \text{ hundreds} - 5 \text{ hundreds} = 3 \text{ hundreds}$ .  
Write 3 in hundreds place.

Now the abacus represents 325



## Example

Subtract:

	H	T	O
	4	5	7
—	2	4	3

Step 1 :

Subtract ones

	H	T	O
	4	5	7
—	2	4	3
			4

Step 2 :

Subtract tens

	H	T	O
	4	5	7
—	2	4	3
	1		4

Step 3 :

Subtract hundreds

	H	T	O
	4	5	7
—	2	4	3
	2	1	4

	4	5	7
—	2	4	3
	-----		
	2	1	4
	-----		

**Exercise 1**

**Subtract the following numbers:**

$$\begin{array}{r} 257 \\ - 143 \\ \hline \end{array}$$

$$\begin{array}{r} 454 \\ - 232 \\ \hline \end{array}$$

$$\begin{array}{r} 591 \\ - 360 \\ \hline \end{array}$$

$$\begin{array}{r} 738 \\ - 502 \\ \hline \end{array}$$

$$\begin{array}{r} 869 \\ - 735 \\ \hline \end{array}$$

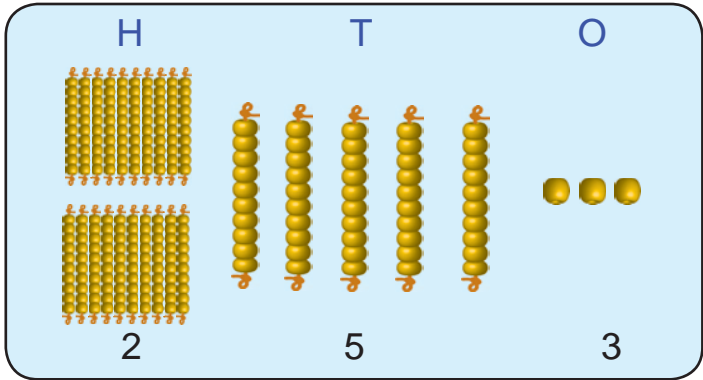
$$\begin{array}{r} 948 \\ - 437 \\ \hline \end{array}$$

**Subtraction of three digit numbers (with regrouping)**

**Example**

**Subtract :**

$$\begin{array}{r} 253 \\ - 127 \\ \hline \end{array}$$

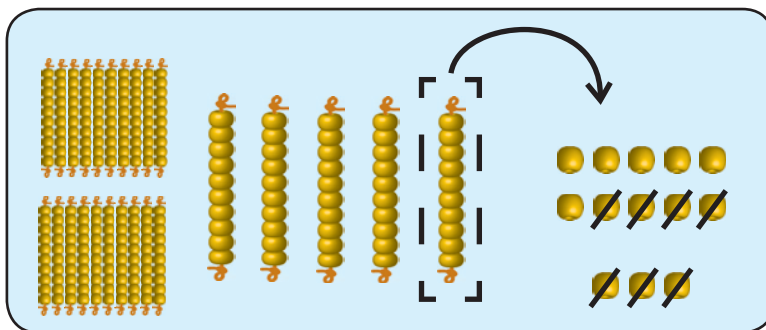




Step 1 :

Subtract ones

	H	T	O
		4	13
	2	<del>5</del>	<del>3</del>
-	1	2	7
			6



We can not subtract 7 ones from 3 ones. From 5 tens we take 1 ten and regroup it as 10 ones and add with 3 ones.

Subtract 13 ones - 7 ones = 6 ones

$$13 - 7 = 6$$

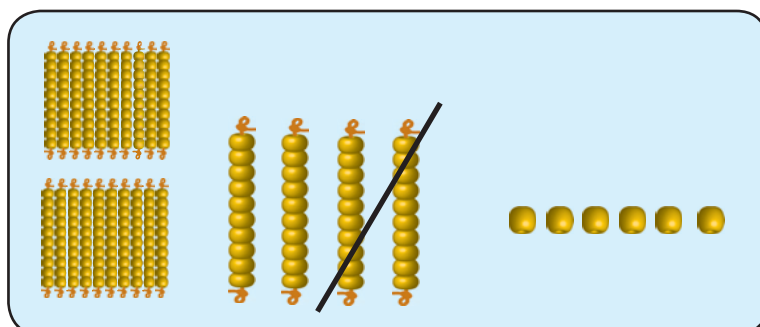
Write 6 in ones place.



Step 2 :

Subtract tens

	H	T	O
		4	13
	2	<del>5</del>	<del>3</del>
-	1	2	7
		2	6



Subtract 4 tens - 2 tens = 2 tens

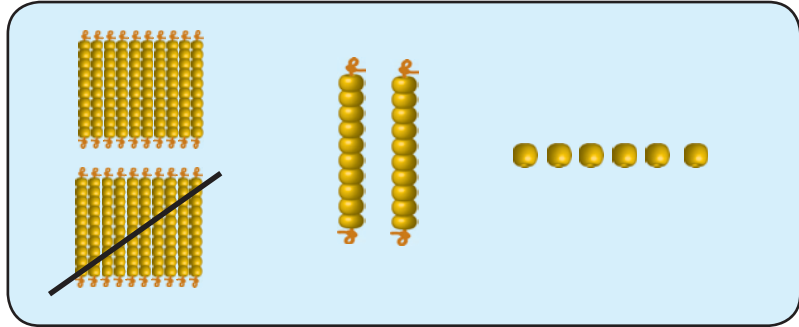
$$4 - 2 = 2$$

Write 2 in tens place

Step 3 :

Subtract hundreds

H	T	O
	4	13
2	<del>5</del>	<del>3</del>
- 1	2	7
1	2	6



Answer is 126

Subtract 2 hundreds – 1 hundred  
 $2 - 1 = 1$   
Write 1 in hundreds place.

**Example**

Subtract

	8	0	3
-	2	3	7
<input type="text"/>			

Step 1 :

Subtract ones.

	7	10	
	<del>7</del>	<del>0</del>	3
-	2	3	7
<input type="text"/>			

We can not subtract 7 from 3. So regroup tens. There is no tens. So regroup 1 hundred into 10 tens.





H	T	O
	9	
7	<del>10</del>	13
<del>8</del>	<del>0</del>	<del>3</del>
- 2	3	7
		6

Take 1 ten and regroup it as 10 ones and add with 3 ones, we get 13 ones.  
 subtract 13 ones - 7 ones = 6 ones.

$$13 - 7 = 6$$

Write 6 in ones place.

Step 2 :

Subtract tens

H	T	O
	9	
7	<del>10</del>	13
<del>8</del>	<del>0</del>	<del>3</del>
- 2	3	7
	6	6

Subtract 9 tens - 3 tens = 6 tens.

$$9 - 3 = 6$$

Write 6 in tens place.

Step 3 :

Subtract hundreds

H	T	O
	9	
7	<del>10</del>	13
<del>8</del>	<del>0</del>	<del>3</del>
- 2	3	7
5	6	6

Subtract 7 hundreds - 2 hundreds = 5 hundreds

$$7 - 2 = 5$$

Write 5 in hundreds place

Answer is 566



 **Exercise 2**

$$\begin{array}{r} 3 \quad 6 \quad 5 \\ -2 \quad 2 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 1 \quad 8 \\ -1 \quad 0 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 4 \quad 7 \\ - \quad 2 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 0 \quad 6 \\ -4 \quad 5 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 8 \quad 4 \\ -1 \quad 9 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 8 \quad 2 \\ -1 \quad 7 \quad 6 \\ \hline \end{array}$$



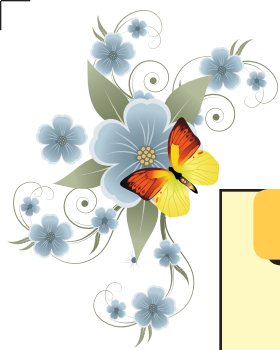
**ACTIVITY 3**

**Fun!**

Take three numbers. (4, 3, 8)  
 Form the smallest three digit number. (348)  
 Interchange the digits. (843)  
 Subtract the smaller number from the greater number. (843 - 348)  
 Do it for various numbers !

Take a two digit number. (98)  
 Interchange the digits. (89)  
 Subtract the smaller number from the greater number. (98 - 89 = 09)  
 Interchange digits in the answer. (90)  
 Add the interchanged number with the answer. (9 + 90 = 99)  
 Do it for other two digit numbers !  
 What do you get?





## Statement problems

### Exercise 3

There are 985 students in a school. 490 of them are girls. How many boys are there in the school?



Total number of students = **985**  
 No. of girls = **490**  
 No. of boys =

The population of a village is 992. The number of male is 547. Find the number of female in the village.



Total Population = **992**  
 No. of male = **547**  
 No. of female =

A factory made 842 toys in a day. 575 of them were sold to a dealer. How many toys were left unsold.



Total number of toys = **842**  
 No. of toys sold = **575**  
 No. of toys unsold =

The sum of two numbers is 700. If one number is 300. Find the other number?



Sum of two numbers = **700**  
 One number = **300**  
 Other number =



Date:.....

1) Subtract the following :

$$\begin{array}{r} 568 \\ -342 \\ \hline \end{array}$$

$$\begin{array}{r} 632 \\ -410 \\ \hline \end{array}$$

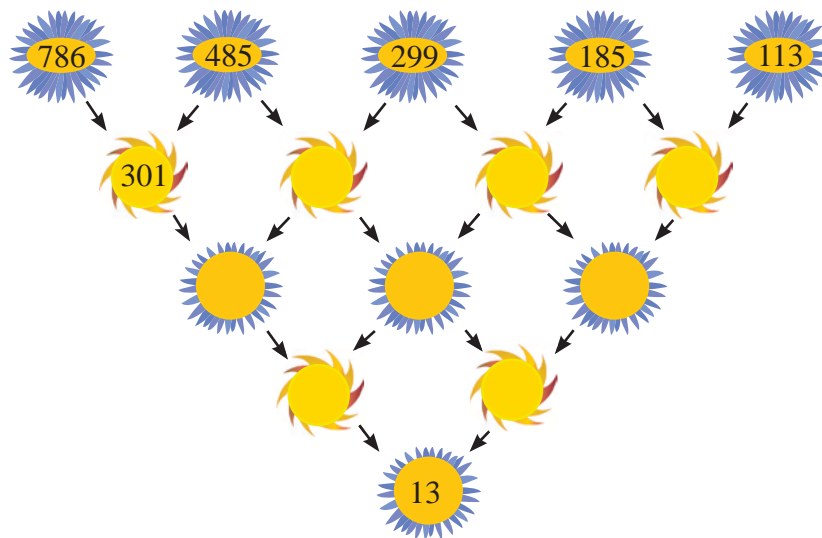
$$\begin{array}{r} 987 \\ -863 \\ \hline \end{array}$$

$$\begin{array}{r} 782 \\ -358 \\ \hline \end{array}$$

$$\begin{array}{r} 542 \\ -359 \\ \hline \end{array}$$

$$\begin{array}{r} 430 \\ -124 \\ \hline \end{array}$$

2) Begin at the top by subtracting the two numbers that are connected with arrows. The first one is done for you. The last number is given to you as a check.



145



**3) Express the following in numeral and subtract the second number from the first number.**

- a) Four hundred sixty five , two hundred forty
- b) Three hundred thirteen, one hundred two
- c) Six hundred twenty four, five hundred twenty nine
- d) Eight hundred seventy two, five hundred thirteen
- e) Seven hundred sixty four, five hundred fifty seven

**4) Answer the following:**

a) There were 895 note books in a box. 500 note books were distributed. How many note books were left in the box?

b) 780 packets of sweets were bought to distribute to the children in a school. 512 packets were distributed. How many packets were left?

c) In an India - Pakistan one day cricket match, the two teams scored a total of 700 runs. If Pakistan scored 208 runs, how many runs did India score?

Comments

Teacher's signature

## Stories for addition and subtraction facts

### Story 1

Balu collected firewood from a jungle. He wanted to sell them in the market. He made 15 bundles of firewood. On the way to the market, he met an old lady. She was not well. She had no firewood to cook. She was sad. By seeing this, Balu took pity on her. So he gave one bundle to her.

**He uses 10 firewood to make 1 bundle**



2 Bundles have \_\_\_\_\_ firewoods.

Now, how many bundles are there?

He sold 7 bundles in the market .

How much bundles left with him?

Like Balu you have to help the people!

### Story 2

Mrs. Rukmani is a social worker. She used to help the children to get their uniform dresses and note books. On visiting two different schools, she came to an idea of ordering dresses for 43 boys and 42 girls for one school and 117 boys and 108 girls in another school. While distributing the dresses to the children, she was informed that on the whole 16 Boys and 13 girls were absent on that day. So kindly help Mrs. Rukmani to calculate the total number of uniforms she will have to give.





## Framing stories for problems :

Let us create a word problem to match these addition facts.



### Example

$$22 + 12 = ?$$

There are 22 children in 2nd standard and 12 in 3rd standard .

How many children are there in all?

## Frame a story for each given addition facts:

$$3 + 4 = ?$$

The gardener at the garden planted \_\_\_\_\_ rose saplings and \_\_\_\_\_ jasmine saplings.  
How many saplings did he plant in all ?

In a school there are \_\_\_\_\_ boys and \_\_\_\_\_ girls. How \_\_\_\_\_ ?

$$144 + 142 = ?$$

$$253 + 317 = ?$$

Frame a story for each given subtraction facts :

$100 - 12 = ?$

Ramu, a fruit seller, has 100 mangoes. He gave 12 mangoes to the poor, free of cost. Then how many mangoes he would have sold for money?

Geetha has \_\_\_\_\_ rupees. She bought a pen for \_\_\_\_\_ rupees. How much money does she have?

$50 - 15 = ?$

$130 - 125 = ?$



#### ACTIVITY 4

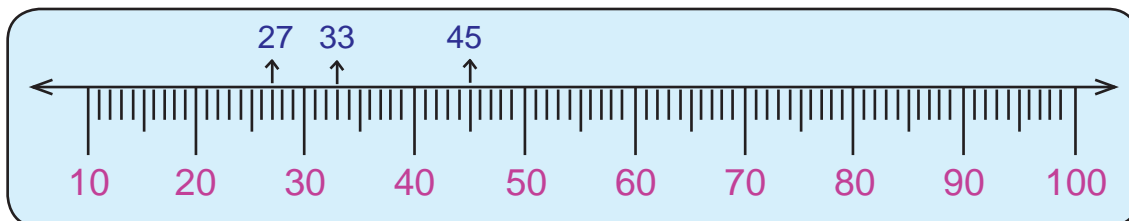
The teacher has to start saying stories for simple addition and subtraction facts. The children have to continue and finish the story by telling one by one. Finally the teacher has to sum up the story.





## Estimation of numbers

Let us round off these numbers 27, 33 and 45 to the nearest ten.



We can see that 27 is between 20 and 30 but it is closer to 30 than 20. So, 27 round off to 30. 33 is between 30 and 40 but it is closer to 30 than 40. So 33 round off to 30. 45 is between 40 and 50 but it is exactly on the middle point. So 45 round off to 50.

### Example

1) Estimate the sum to the nearest ten and also find the actual sum.

Problems	Estimated Answer	Actual Answer
$\begin{array}{r} 12 \\ + 15 \end{array}$	$\begin{array}{r} 10 \\ + 20 \end{array}$	$\begin{array}{r} 12 \\ + 15 \end{array}$
Sum	30	27

2) Estimate the difference to the nearest ten and also find the actual difference.

Problems	Estimated Answer	Actual Answer
$\begin{array}{r} 18 \\ - 12 \end{array}$	$\begin{array}{r} 20 \\ - 10 \end{array}$	$\begin{array}{r} 18 \\ - 12 \end{array}$
Difference	10	6

 **Exercise 4**

1) Round off to the nearest 10:

- (a) 16       (b) 10       (c) 23   
 (d) 35       (e) 46       (f) 47

2) Estimate the sum to the nearest ten and also find the actual sum.

Problem	Estimated Answer	Actual Answer
13 +15	10 +20	13 +15

Problem	Estimated Answer	Actual Answer
27 +33		


3) Estimate the difference to the nearest ten and also find the actual difference.

Problem	Estimated Answer	Actual Answer
48 -41	50 -40	48 -41


Problem	Estimated Answer	Actual Answer
39 -21		




There are 12 pencils in a box. If 12 more had been put in, then there would be \_\_\_\_\_pencils in the box.




A shopkeeper has 25 eggs and he buys 10 more eggs. Now he has \_\_\_\_\_ eggs.




I am 7 years elder than my sister. My sister's age is 6. Then what is my age ?




Class III has 36 students. If 16 of the students are boys then how many girls are there?



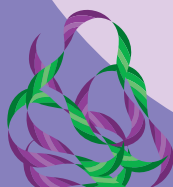
A factory made 30 bulbs on the first day. On the second day it did not make any bulbs. How many bulbs did they make altogether?




Gopu has 40 marbles and he gives 13 marbles to his sister. How many marbles does he have now ?



Meena has 12 green ribbons and 10 white ribbons. Then how many ribbons does she have?



In a city there are 28 primary schools, 20 higher secondary schools. How many schools are there in the city in all?



In a school cricket match, Anand scored 30 runs in the 1st innings and scored 20 runs in the 2nd innings. Find the total runs scored by him.

