

INTERNATIONAL YEAR OF MATHEMATICS

TIPS AND TRICKS IN TEACHING MATHEMATICS

- **Made for KVS Competition 2012– Entry in Teacher Category**
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TIPS AND TRICKS IN TEACHING MATHEMATICS

- Teaching and learning math's by rote memory method can be boring and tiring.
- Small children like to study in a fun filled manner. Learning tables and doing other mathematical calculation by rote memory method and mechanical way does not interests them. That's why they develop a feeling of fear, hatred and disliking for the subject.

TIPS AND TRICKS IN TEACHING MATHEMATICS

- We, teachers can only make learning math fun filled and joyful by introducing simple activities.
- Instead of simply writing counting on the black board, if we use number grid or blocks of numbers, children will learn willingly. We can also give them beads and ask them to make garlands having ten beads, fifteen beads etc.

Use of Teaching - Learning Aids

- **A variety of wooden and plastic teaching aids are available in the market like abacus, pull out shapes, number puzzles, place value kit, parts of a circle, parts of a square, cube box etc. which can help in making math's interesting and long-lasting. Teaching-learning aids can be prepared by teachers and students which will give them a feeling of achievement and belonging.**

Use of ICT Tools

- **We can further develop interest in the subject by using various ICT tools like over – head projector, computer, CDs, Power Point Presentations, Animations, DVDs and DVD player, Interactive Board(where students can draw shapes with just a touch of their finger tips) and can make use of internet, scanner and digital camera to collect related pictures and use in the class room.**

Making and Showing Power Point Presentations

- **Children love to watch power point presentations and their interest help them in learning in a better way which is long lasting and permanent.**
- **A power point bank can be made in every school by joint effort of all the teachers and all the PPTs can be used by co-operation and collaboration by all.**

- Here I want to show one of my PPT as an example that how it can make simple additions more interesting and activity based.
- By using PPTs we can clear their basics also. e.g. Here I have tried to make use of writing zero where there is no digit, so that while doing calculations, children put correct values at correct places like units, tens, etc. and chances of mistakes are reduced.

14. BIRDS COME, BIRDS GO

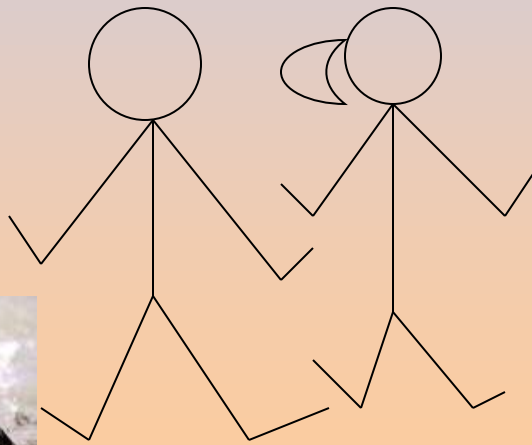
CLASS - II

MATHS

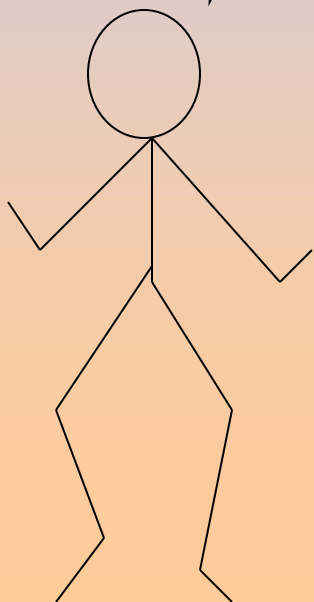
NCERT BOOK

*Hey ! Look ,
birds! Let us
count them
using our cards.
One  card
for these black
birds.*

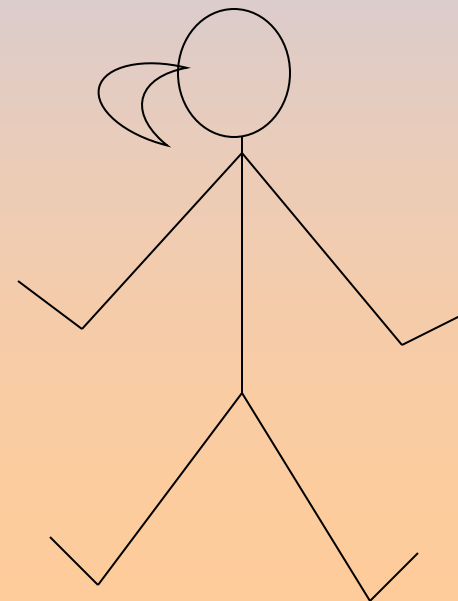
*And four  card for these other
birds.*



Now, how many birds in total ?



See, these cards show 14 birds .

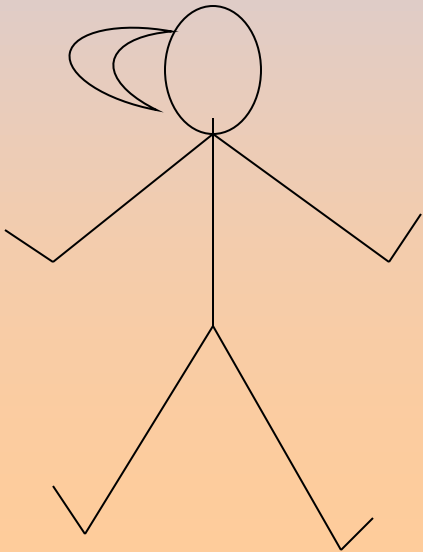
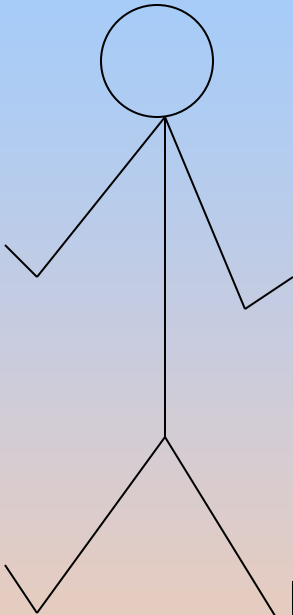


Let us try adding in writing.

+

	10	1
1	0	
0	4	
1	4	

Uhm---m! zero is placed before 4 to get the correct place value of the numbers.



+

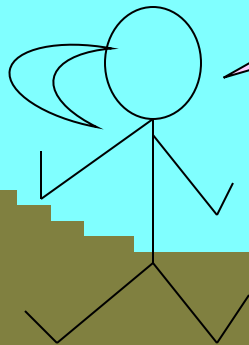
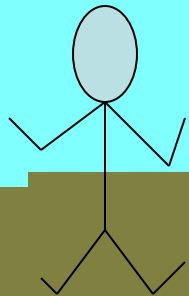
	10	1
1	0	
4		
5	0	


×

HOW MANY CRANES?

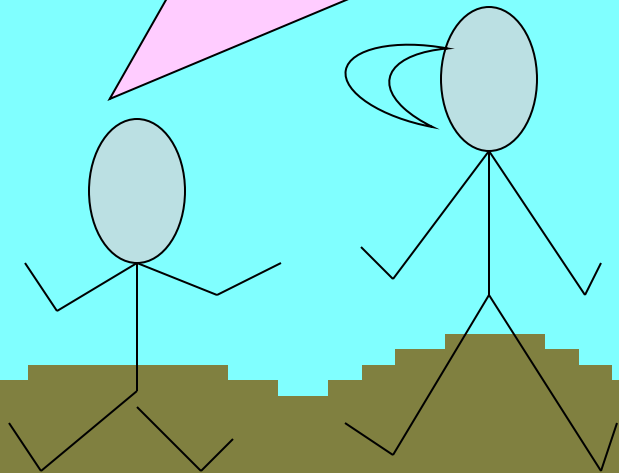
Look up! Look up!
Some cranes are
coming. Well, let's
count them also.

Uhm---! One  card and
six  cards for this group of
cranes.

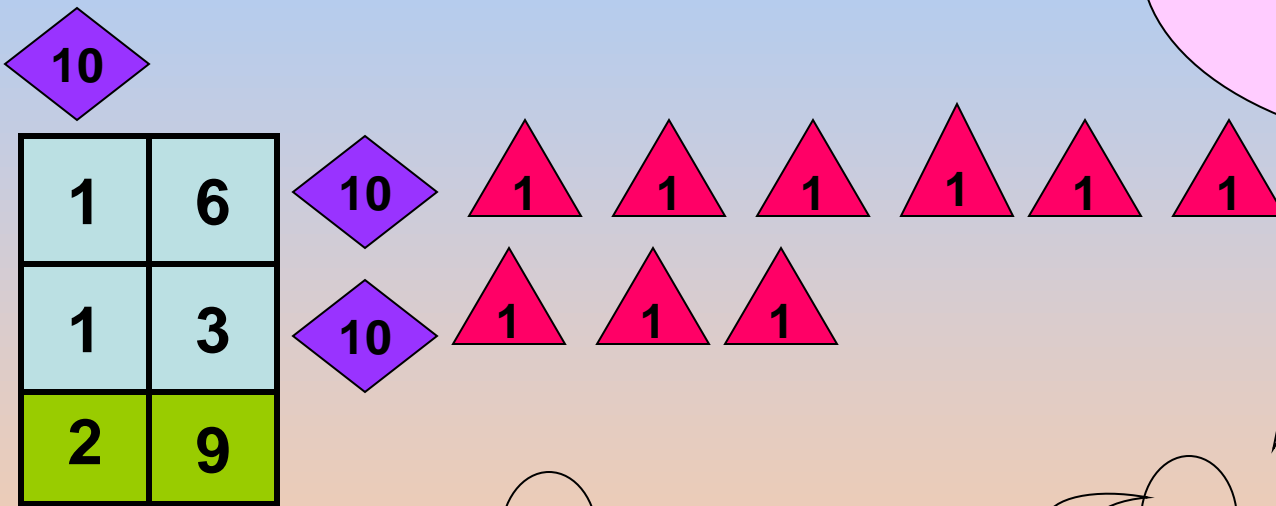




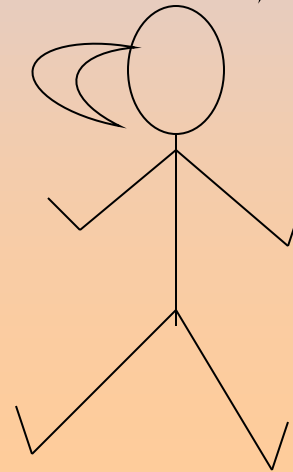
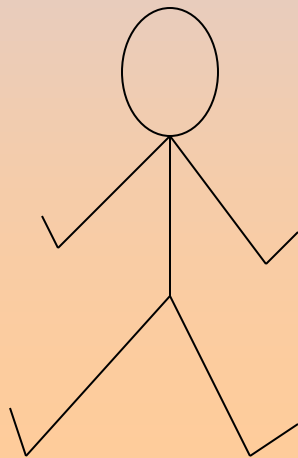
**See, 13 more birds flew in. Let us
add to see how many birds in all
there are now.**



For $16 + 13$ we write :



So, the total number of cranes is 29.



PRACTICE TIME

- USING OUR TOKEN CARDS, LET US FIND THE ANSWER :

The image shows three addition problems using token cards. Each problem consists of a 2x2 grid of numbers. Above the top-left cell is a purple diamond with the number 10, and above the top-right cell is a red triangle with the number 1. A plus sign is placed to the left of each grid. The bottom row of each grid is shaded green.

10	1
2	4
1	7

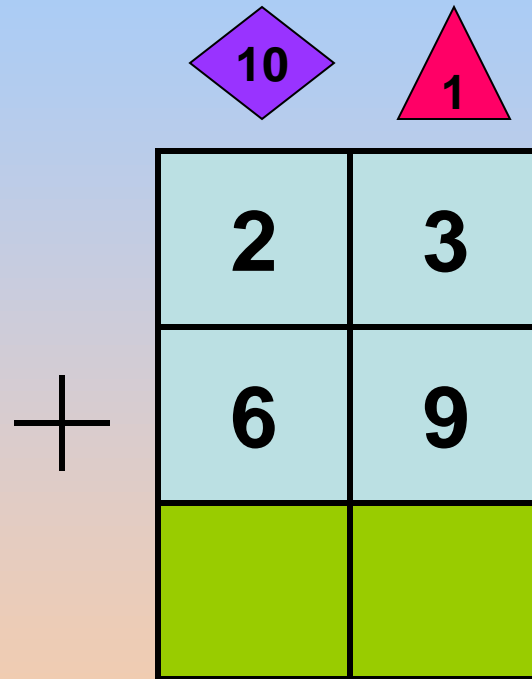
+

10	1
7	3
5	9

+

10	1
4	8
3	6

- Rahul scored 23 runs in a cricket match and Dhoni scored 69. How many runs did they make in all?



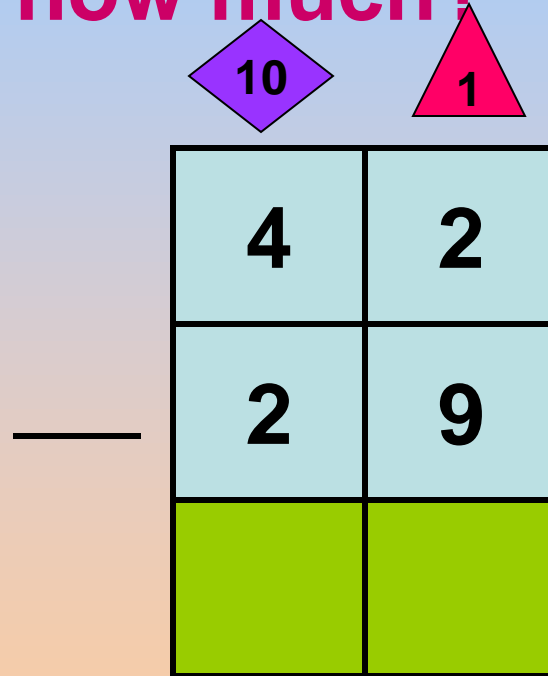
They made 92 or 82 runs in all.

- Dema sold 48 shawls in a fair. Next day he sold 17 more shawls. How many shawls in all did he sell ?

$$\begin{array}{r} \text{10} \quad \text{1} \\ \begin{array}{|c|c|} \hline 4 & 8 \\ \hline 1 & 7 \\ \hline \color{green} & \color{green} \\ \hline \end{array} \\ + \\ \hline \end{array}$$

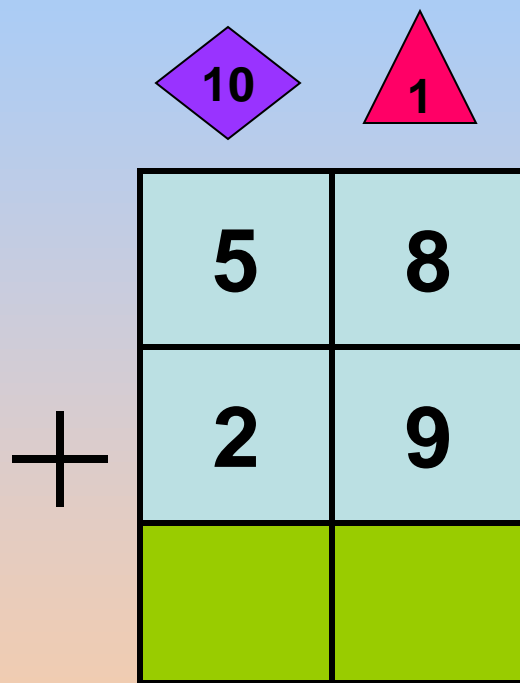
- Dema sold 65 or 55 shawls in all.

- Bunnu rabbit can eat 29 carrots in one week. Munnu rabbit can eat 42 in one week. Who eats more in a week, and how much?



Munnu or Bunnu eats 13 or 23 more carrots.

- Neha is 29 years old. Her mother is 58 years old. How many years older is Neha's mother?



Mother is 28 or 29 years older than Neha.

THANK YOU