

Sri – Om  
**VEDIC MATHEMATICS AWARENESS YEAR**

E-Newsletter Issue no 29 dated 8-11-2014

*'Credit goes to Swami Bharti Krshna Tirtha Ji Maharaj to focus the attention of present generation about the values of Ganita Sutras (mental Mathematics Sutras)'*

*All are invited to join Awareness program*

*All are warmly invited to join the awareness program of Vedic Mathematics. All teachers, parents and students are invited to Learn and Teach Vedic Mathematics for proper intelligence growth at School.*

Dr. S. K. Kapoor  
Sh. Rakesh Bhatia  
Sh. Bhim Sein Khanna  
Sh. Deepak Girdhar  
- Organizers

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**LEARNING WITH SELF LEARNING**

(Chapter from Book 'Vedic Mathematics (organization format of Ganita Sutras) of Dr. S. K. Kapoor )

**LESSON - 07**

**ADDITION OF TWO DIGITS NUMBER**

1. Ganita Sutra 1 एकाधिकेन पूर्वेण Ekadhiken Purvena  
Rule: One more than before.
2. Ganita Sutra 14 एकान्यनेन पूर्वेण Ekanunena Purvena Rule: One less than before
3. Lilawati: अथ संकलित-व्यकलितयोःकरणसूत्रं वताधर्म् ।

Here is addition-subtraction method in half verse

कार्यः क्रमादुत्क्रमतोश्चवाशङ्.कयोगो यथा स्थानकमंतरं वा ॥ ग्म् ॥

Skill steps be done in sequence the operations of addition and subtraction as per the places, right to left, of digits (of numbers to be added/subtracted)

Case 1: Add 00 and 01

Step 1: Let us write the given numbers pair in a format as:

	On format of two slots	
	Second	First
First number	0	0
Second Number	0	1

Step 2: To add the digits of first slots of both numbers as: By definition, under rule of Sutra 1

$0+1=1$  as Ekadhika of 0 that is 0.

Step 3: To add the digits of second slots of both number as:

Step 4: Result of addition operation:

On format of two slots	Second	First
First number	0	0
Second Number	0	1
Result of addition operation	0	1

Step 2: To add the digits of first slots of both numbers as: By definition, under rule of Sutra-1

$1+1=2$  as Ekadhika of 1 that is

Step 3: To add the digits of second slots of both number as: By definition, under rule of Sutra-1

$0+0=0$  for want of Ekadhika

Step 4: Result of addition operation:

On format of two slots	Second	First
First number	0	1
Second Number	0	1
Result of addition operation	0	2

Cases for exercise:

Write down the result of addition operation for the following case:

On format of two slots	Second	First
First number	0	1
Second Number	0	2
Result of addition operation		

Write down the result of addition operation for the following case

On format of two slots	Second	First
First number	0	1
Second Number	0	3
Result of addition operation		

Case 3 add 02 and 02:

Step 1: Let us write the given numbers pair in a format as:

On format of two slots	Second	First
First number	0	2
Second Number	0	2
Result of addition operation		

Step 2: To add the digits of first slots of both numbers as: By definition, under rule of Sutra-1

$2+2=4$  as Ekadhika of Ekadhika of 2 is 4.

Note: Here the Ekadhika rule is applied in two steps, firstly it takes from 2 to Ekadhika 2 that is to 3 and then in the second it takes to Ekadhika of 3 that is to 4

Note: Here the numeral 2 has been chased for its addition with two on first principles of Ekadhika rule. It would be good exercise to chase addition of digits on first principles.

Step 3: To add the digits of second slots of both number as:By definition, under rule of Sutra-1

$0+0=0$  for want of Ekadhika

Step 4: Result of addition operation:

On format of two slots	Second	First
First number	0	2
Second Number	0	2
Result of addition operation	0	4

\*

8-11-2014

Dr. S. K. Kapoor, (Ved Ratan)

## **News and Views**

### **Invitation for participation in Vedic Mathematics textbooks project**

#### *INVITATION*

1. We are undertaking the project of settling Vedic Mathematics text books for schools.
2. This project is for settlement of text books of Vedic Mathematics for classes eight to twelfth.
3. Text book for each class would be of three parts  
Part – 1 ‘Vedic Mathematics for class VIII  
(likewise for class 9, class 10, class 11 and class 12)  
Part – 2 ‘Vedic Mathematics exercises for class VIII’  
(likewise for class 9, class 10, class 11 and class 12)  
Part – 3 ‘Teaching and evaluation manual of Vedic Mathematics for class VIII’  
(likewise for class 9, class 10, class 11 and class 12)
4. Each sutra and Upsutra would be taken up in separate section exclusively devoted to particular Sutra / Upsutra.
5. This way in all, there would be 29 sections for coverage of all the sixteen Sutras and 13 Upsutras.
6. Participants may contribute for all the 29 sections but each Sutra and Upsutra shall be taken up as independent aspect of values of mathematics as every Sutra values are to be covered in distinct section.
7. The intellectual contribution of participants shall be duly recognized and same shall be properly respected.
8. In the light of this theme, we shall be making separate requests for each sutra and upsutra.

#### **Request of participation about the values of Ganita Sutra 8**

पूरणापूरणाभ्याम् ।

**By the completion or non-completion**

1. We feel privileged to request all to participate in our project of Vedic Mathematics text books for classes eight to twelfth.

2. We request you all to participate and contribute your intellectual inputs about the values of Ganita Sutra 8.
3. Also contribute about the values of Ganita Sutra 8 as being complemented and supplemented by the values of other Sutras and Upsutras.
4. We shall be highly thankful for this participation and contribution.
5. We shall be duly recognizing this participation and contribution of intellectual inputs about the values of Ganita Sutra 8.
6. We shall be highly being our respects and thanks in recognition of the intellectual inputs of participants.
7. It is a noble cause.
8. Please participate.

**8-11-2014**

Sh. Rakesh Bhatia  
Sh. Bhim Sein Khanna  
Sh. Deepak Girdhar  
- Organizers