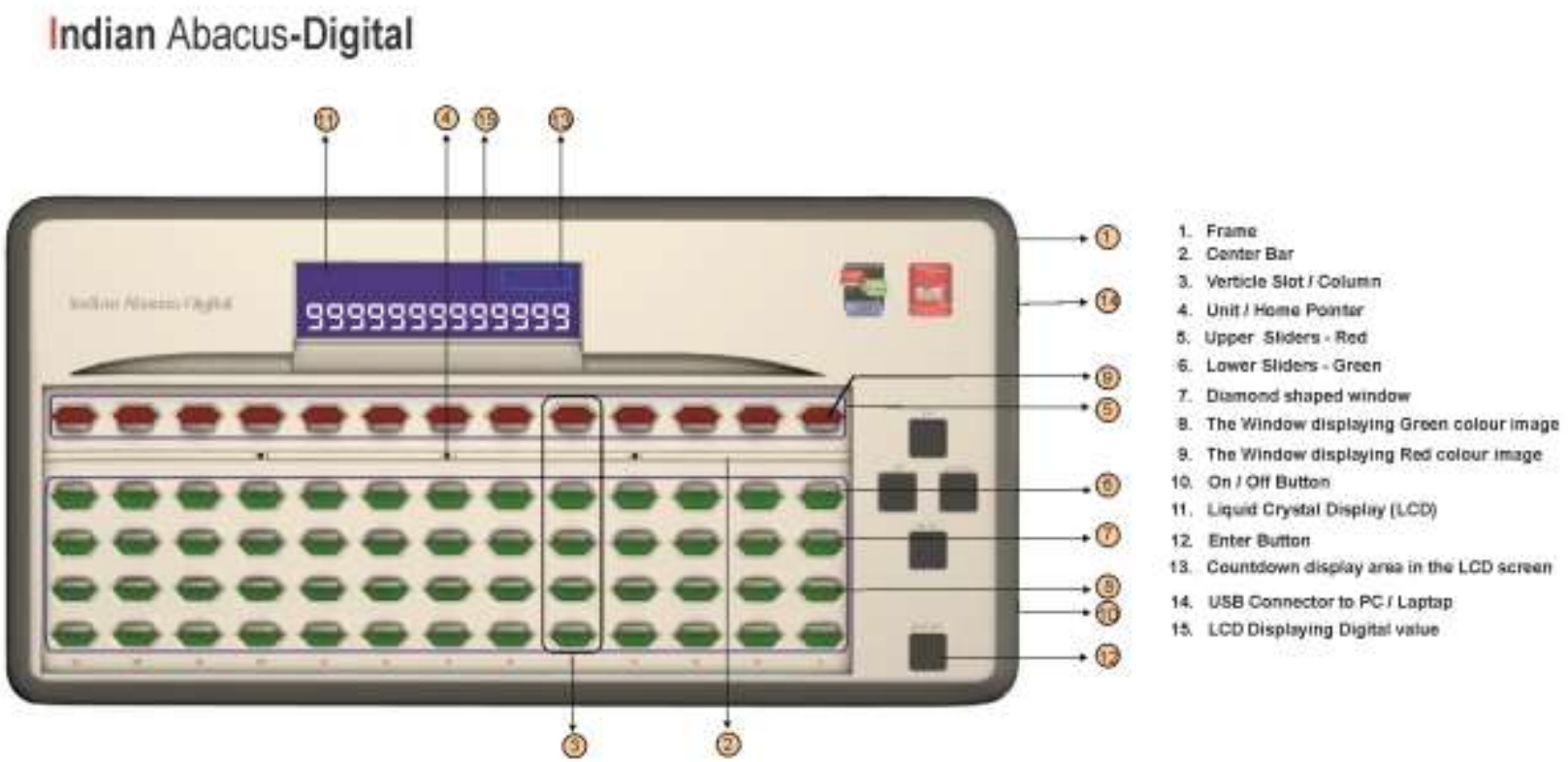
Basics of using the Abacus:

Abacus is a tool which can be used to calculate - Add, Subtract, Multiply & divide, apart from being able to do other arithmetic functions and Brain activation. The user of Abacus, predominantly a student child would need to properly positioned to operate the Abacus with the deft fingers of both the hands.

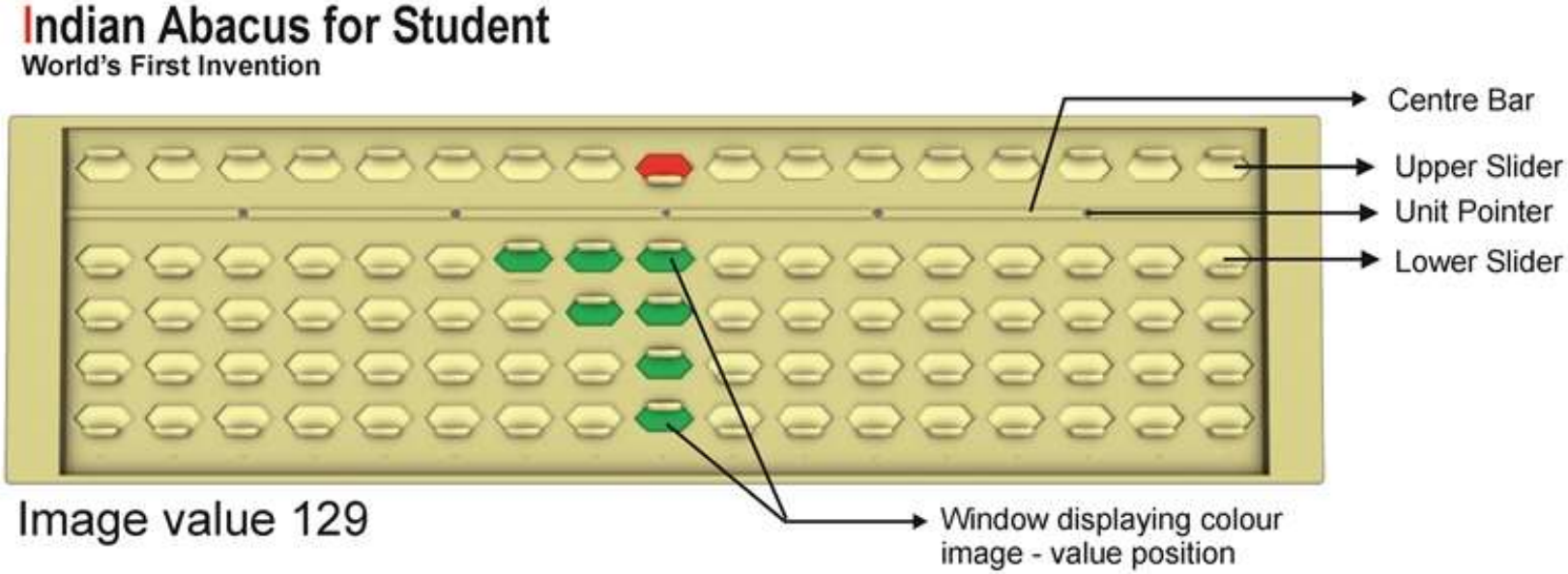
Objective of Abacus Learning:

i. Indian Abacus product and program is to enhance the brain power of the children through image memory.
ii. Remove the fear of Mathematics by making the arithmetic calculations easier.
iii. Age group - School going children 5 – 13 years.

Description of Indian Abacus:



Description of Indian Abacus:



What is an Abacus?

Abacus (plural abaci or abacuses), is a counting frame, used as a calculating tool. It is a very ancient tool and was used widely by many, particularly, the merchants and traders mainly in Asian and African countries and also in other parts of the world.

Even though the oldest Abacus found is said to be as old as belonging to 300 BC, and were in use in Mesopotamia, Egypt, Persia, Greek, Rome and India, its usages are much found in China and Japan.

Abacus and its benefits:

- Arithmetic functions are done using abacus – moving beads on rods which have specific values
- It is used for addition, subtraction, multiplication and division
- Calculation in Mental Arithmetic mode by Image of Abacus
- Abacus based Arithmetic functions, calculations thereof enhance Concentration levels.
- Calculations done with Abacus, using the fingers of both the hands stimulate the brain – both the Right and Left Brain.
- Helps kids learn basic number systems
- Helps Kids understand combinations of five and ten
- Helps kids visualize the math and develops mental calculations

Indian Abacus:

Indian Abacus is the latest device in the history of Abacus, invented in the year 2012 by Mr. N. BAHSHEER AHAMED, Managing Director and CEO, of Indian Abacus Private Limited, Chennai, India. It has four versions.

Indian Abacus – Non-digital for students
Indian Abacus – Digital for students
Indian Abacus – Non-digital for Teachers
Indian Abacus – Digital for Teachers

The Indian Abacus is a tool for calculation, learning which children of the age group 5 to 13 years can do fast and accurate mental arithmetic, more particularly it helps in enhancing their brain skills such as CONCENTRATION, VISUALIZATION (PHOTOGRAPHIC MEMORY) by activating the right brain, the seat of intelligence.

This tool contains 17 / 15 / 13 vertical slots. Each slot contains totally 5 sliders. The bar within the frame runs horizontally and divides each slot into 2 parts. The sliders below the bar on each slot are called lower sliders. The slider above the bar on each slot is called upper slider. There are 4 lower sliders and 1 upper slider in each slot.

The value of each lower slider value position is 1 and upper slider value position is 5. Thus the total value on each slot could be a maximum of “9”. Each slider gets value, only when moved towards the bar. To add a number, the slider is moved towards the bar and to subtract, it is moved away from the bar.

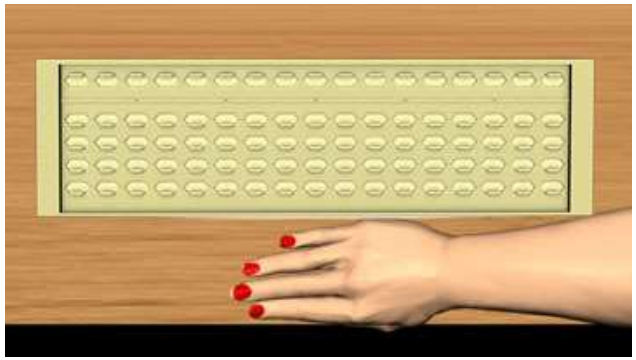
WHY ABACUS?

Abacus is an ancient tool for arithmetic skills. The main objective of the Abacus programme is to enhance the brain power upgrading the brain skills of the children of age group 5 to 13 years and remove the fear of mathematics by making the arithmetic calculations easier.

Abacus education, not only improves the mathematics and creates interest in mathematics, it also helps to improve overall academic skill and helps to tackle the day-to-day challenges. The child acquires the skills of concentration, listening, speed, accuracy imagination, innovation, creativity, comprehension and problem solving capacity.

Research by eminent physicians have further established that while the left hemisphere of the Brain provides analytical information concerning language and sound, the right hemisphere provides integral information process dealing with information concerning shape and space. The use of an Abacus increases integral processing which contribute to the whole brain development of individuals. All these stand and support as to why the use of Abacus is a must.

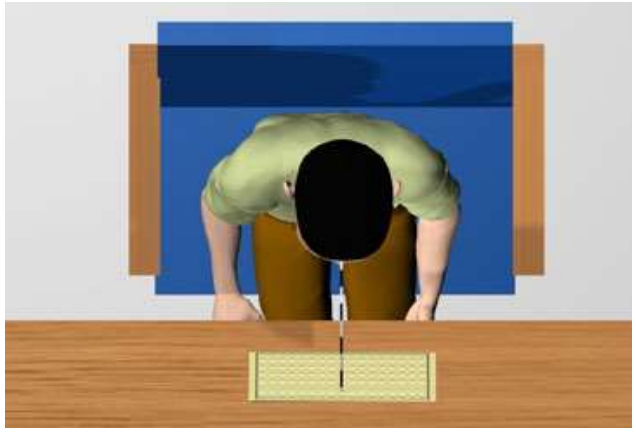
Basics of using the Abacus



1. The student should position of abacus on the table on the table, four fingers distance away from the edge of the Table

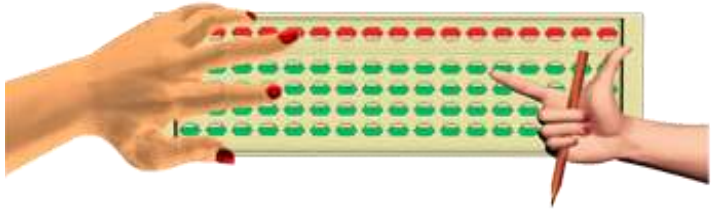
2. He / she should sit upright and be seated front half of the chair space.

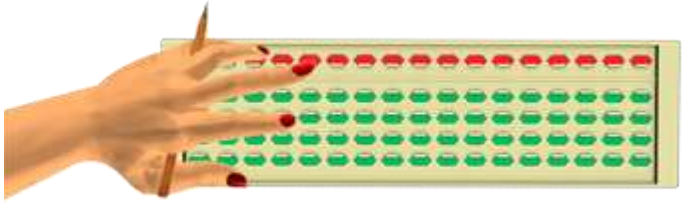
Basics of using the Abacus



3. Abacus tool should be kept perpendicular to the nose of the student when the student looks at it from the top.

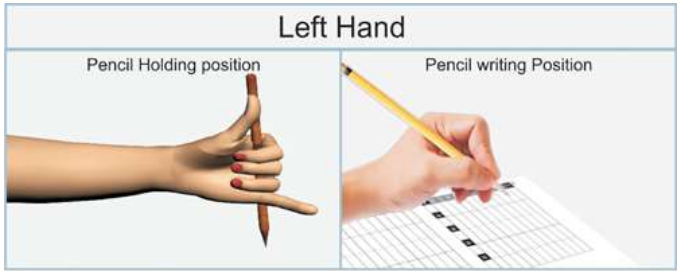
4. If you are a Abacus and Pencil holding for Right Hand writer hold the pencil in your right hand and hold abacus in the left hand when you do computation using Abacus.

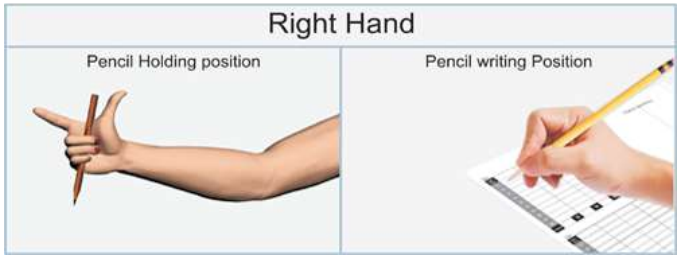




5. If you are a Abacus and Pencil holding for Left Hand writer you must hold Abacus and pencil both in left hand when you do computation using abacus.

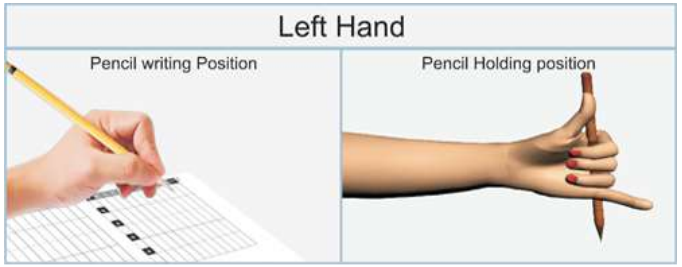
Basics of using the Abacus

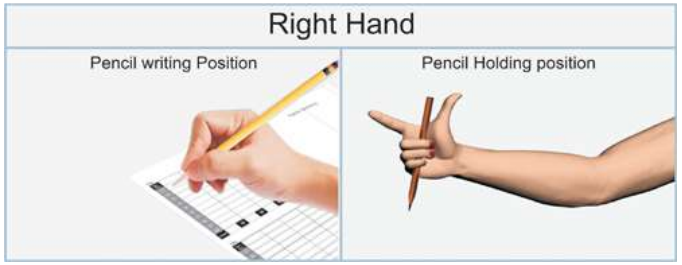




6. After the computation is over, change the position of pencil from **holding to writing position** when you write the answer.

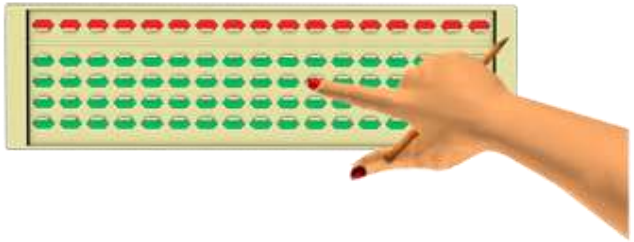
7. When the answer is written, immediately take the pencil from **writing position to holding position** (shooting position) and proceed with your next computation.





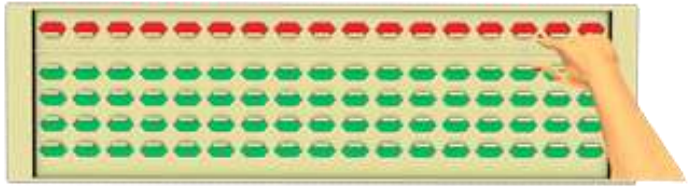
8. Pencil and abacus must be held in the respective hands until you finish the computation of the last sum using abacus.

9. When you do **mental sums without using abacus do not hold abacus in your hand** but always hold pencil in your hand.



10. While doing the abacus and book practice, student should **always hold pencil in the hand.**

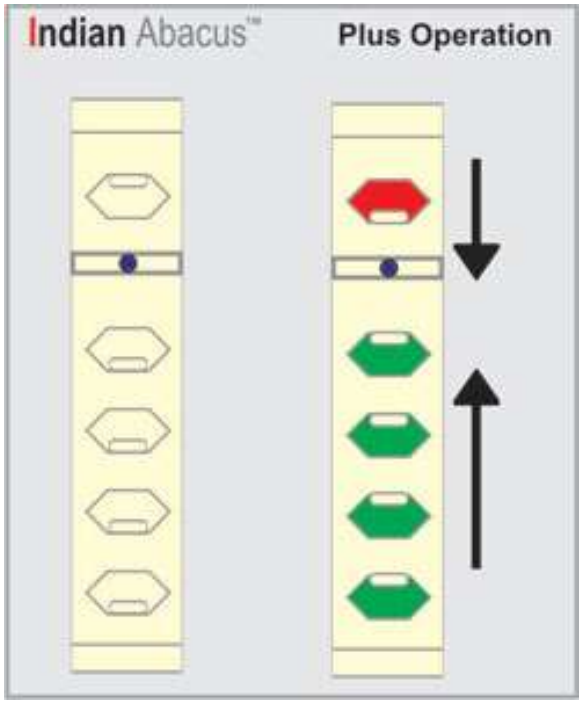
11. Clearing the Abacus is bringing the Abacus to Zero position - all the sliders of all the columns should be moved away from the bar.



12. Clear the abacus before you start the new sum by using short clearance **short clearance** or Long clearance

Operation of Abacus for Addition:

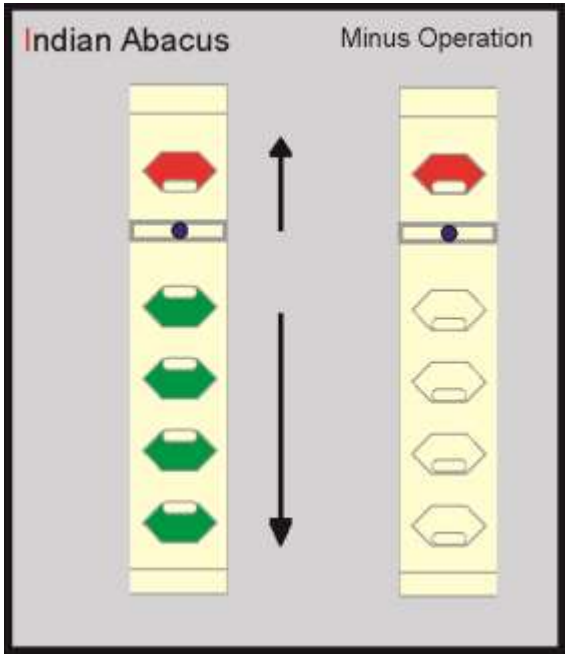
1. When the slider/s moves towards the Bar it assigns the value, it is for plus operation.



Plus (+) Operation

This picture displays two unit pointer of the 9th column, the first unit pointer column represents zero position. The second unit pointer column displays slider movements towards the bar for plus operation, which represents units value.

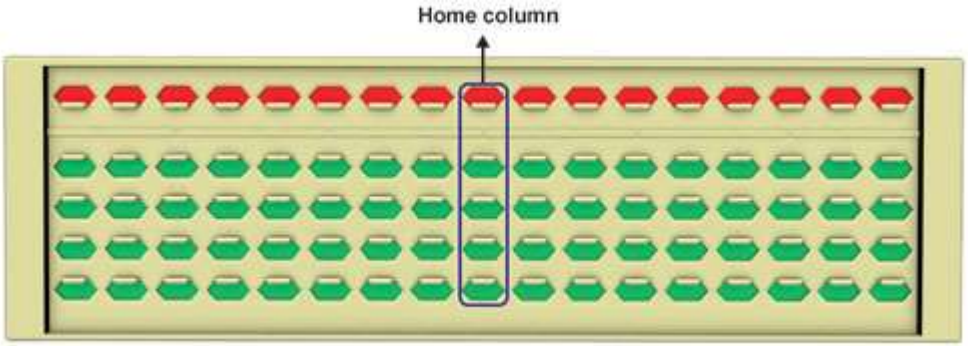
2. When the slider/s moves away from the bar it does not assign any value, it is minus operation



Minus (-) Operation

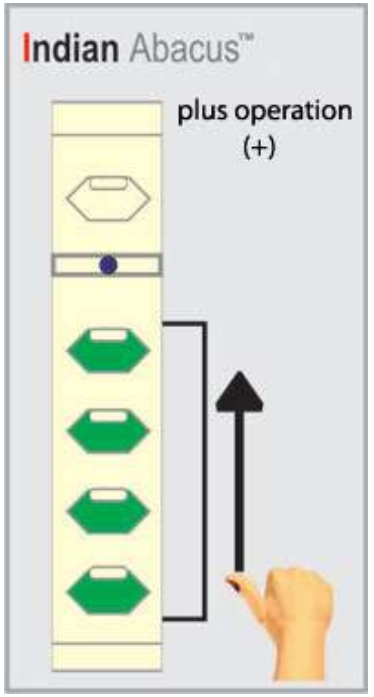
The first unit pointer column displays slider movements away from the bar for minus operation, which represents zero value. The second unit pointer column displays zero position.

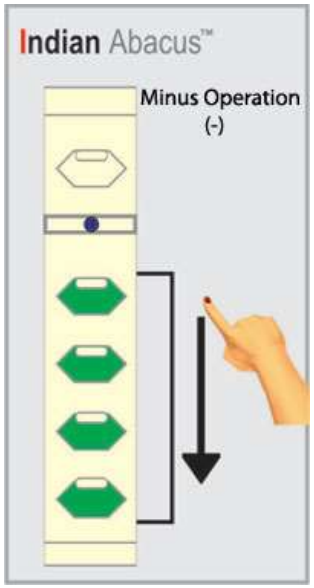
3. There are totally five unit pointers facing columns, but the student should use only the middle unit pointer (in the 9th column) -



Home column - to start doing the computation.

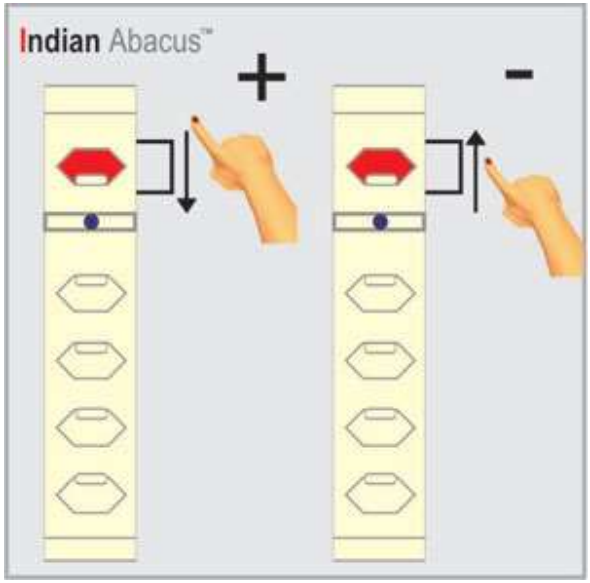
4. Use right hand thumb to move lower slider in the 9th column towards the bar for plus (+) operation.



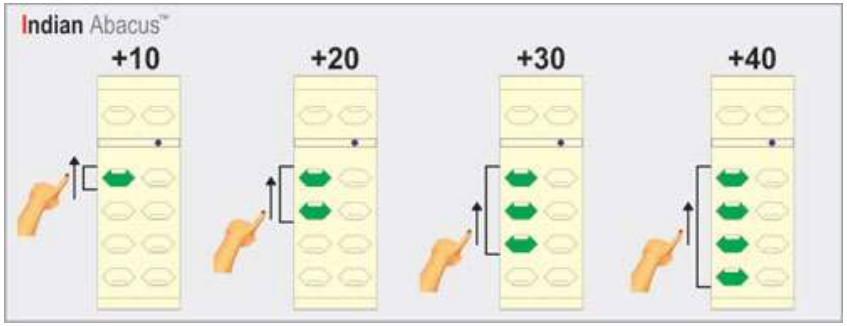


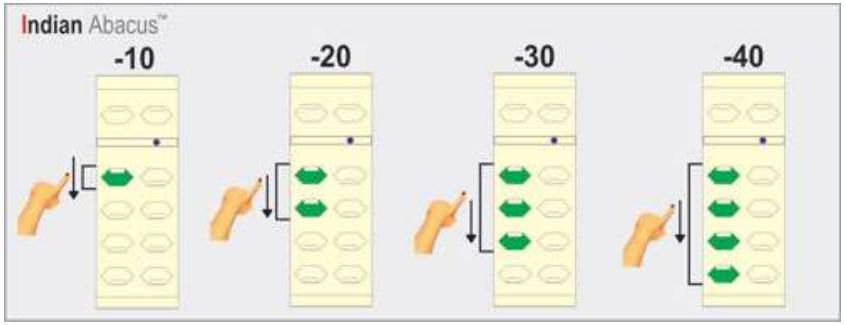
5. Use right hand index finger to move lower slider in the 9th column away from the bar for minus (-) operation.

6. Use only index finger to move the upper slider in the 9th column, towards and away from the bar for both plus and minus (+ & -) operations.

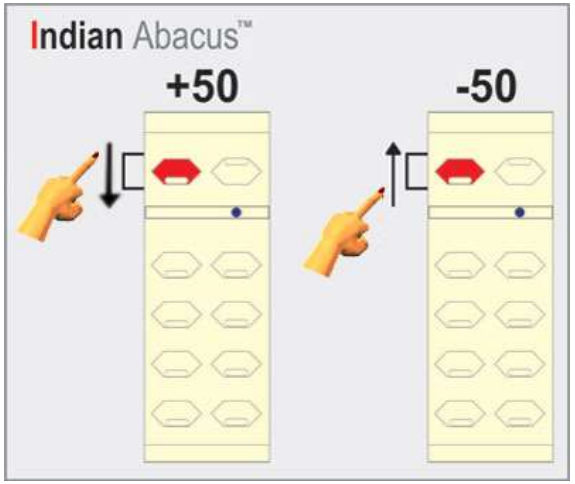


7. Left hand index finger must be used to move the lower slider in the 10th column for both operations i.e. **+10 to +40** and -10 to -40

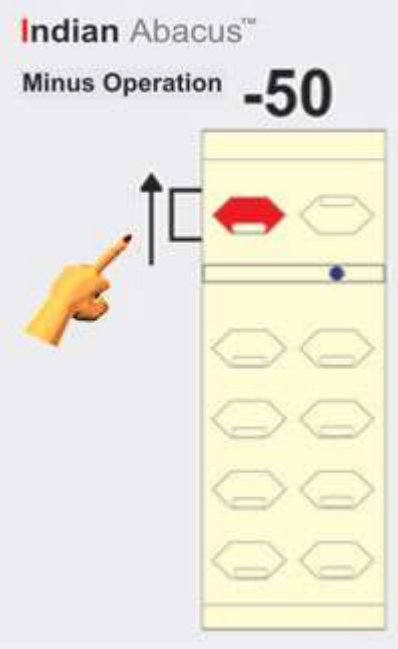




8. Use left hand middle finger to move upper slider in the 10th column again for both minus and plus (+/-) operations. i.e. +50 & -50



Operation of Abacus for Subtraction:



1. When the slider/s moves away from the bar it does not assign any value, **it is for Minus (-) operation.**

2. Use right hand index finger to move lower slider in the 9th column, away from the bar for minus (-) operation.

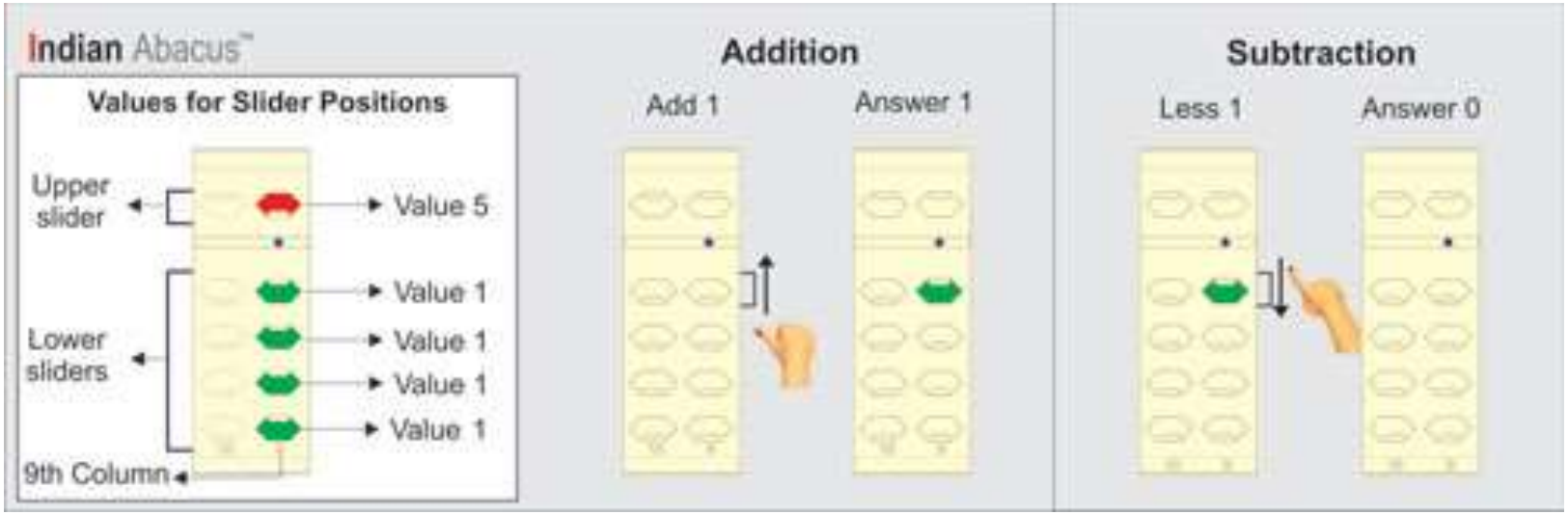
3. Use only index finger to move the upper slider in the 9th column, away from the bar for Minus (-) operations.

4. Left hand index finger must be used to move the lower slider away from the bar in the 10th column for **-10 to -40**.

5. Use left hand middle finger to move upper slider away from the bar in the 10th column for Minus (-) operation, i.e. **-50**.

Values of sliders from Column nos. 9 to 17 of Abacus

1. The **9th column** facing unit pointer is considered as **Unit / Home column**. The upper slider represents the value as Five (5) of this column and the lower slider represents the value as one (1) each. The sliders set in this column assigns value "one " each, together displays

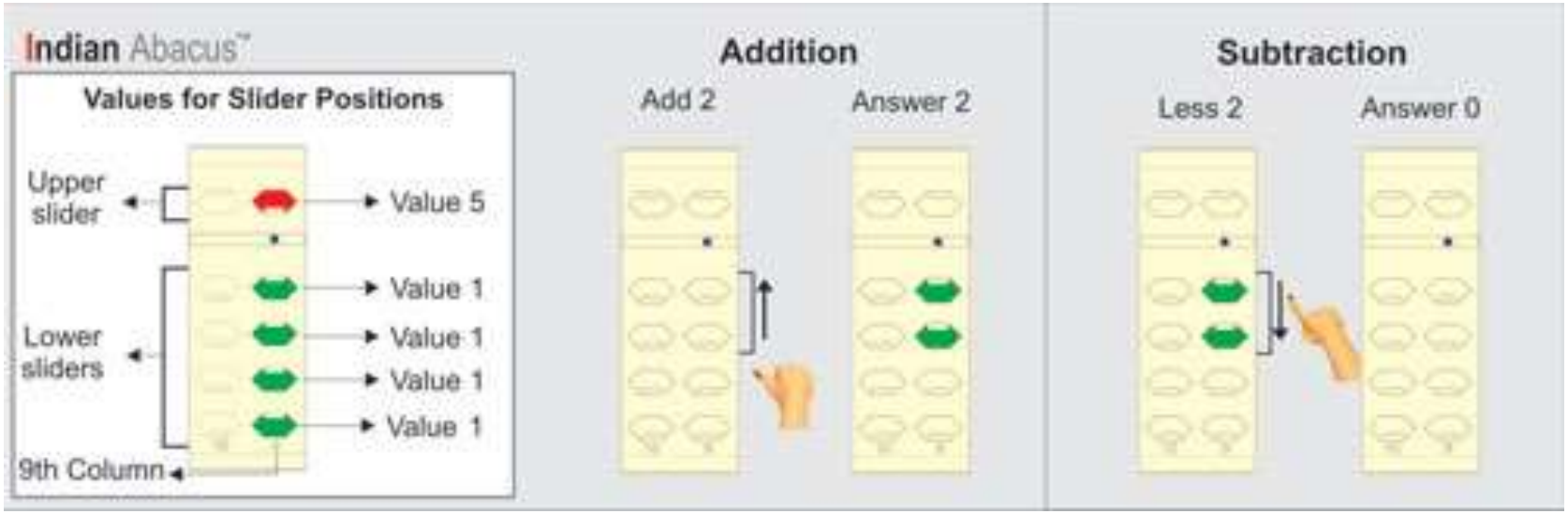


Addition

Move lower slider towards the bar using right hand thumb in the 9th / home column as shown in the picture.

Subtraction

Move lower slider away from the bar using right hand index finger in the 9th / home column as shown in the picture.**1**,

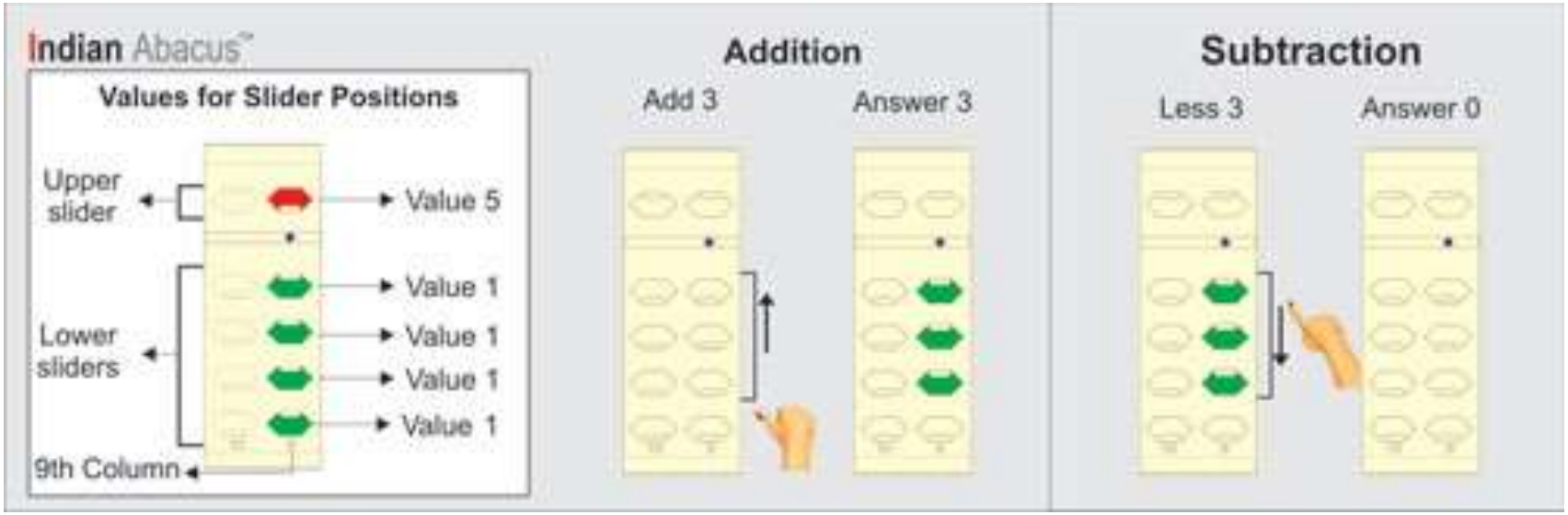


Addition

Move 2 lower sliders together towards the bar using right hand thumb in the 9th / home column as shown in the picture.

Subtraction

Move 2 lower sliders together away from the bar using right hand index finger in the 9th / home column as shown in the picture.**2**,

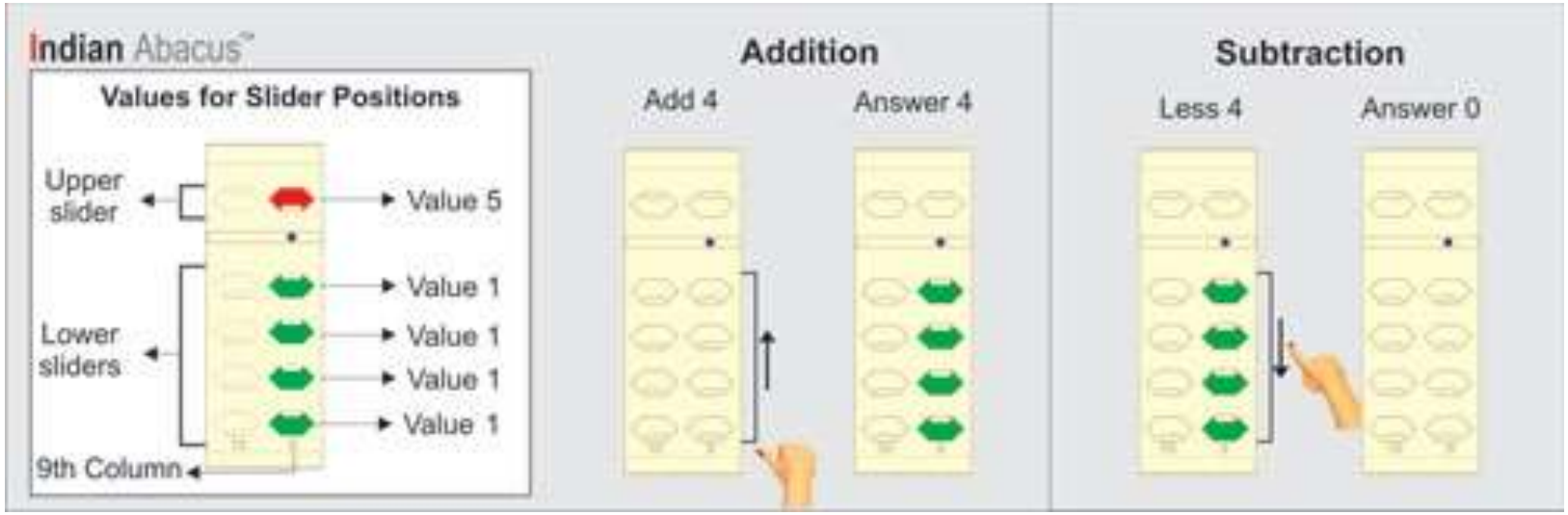


Addition

Move 3 lower sliders together towards the bar using right hand thumb in the 9th / home column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using right hand index finger in the 9th / home column as shown in the picture.**3**,

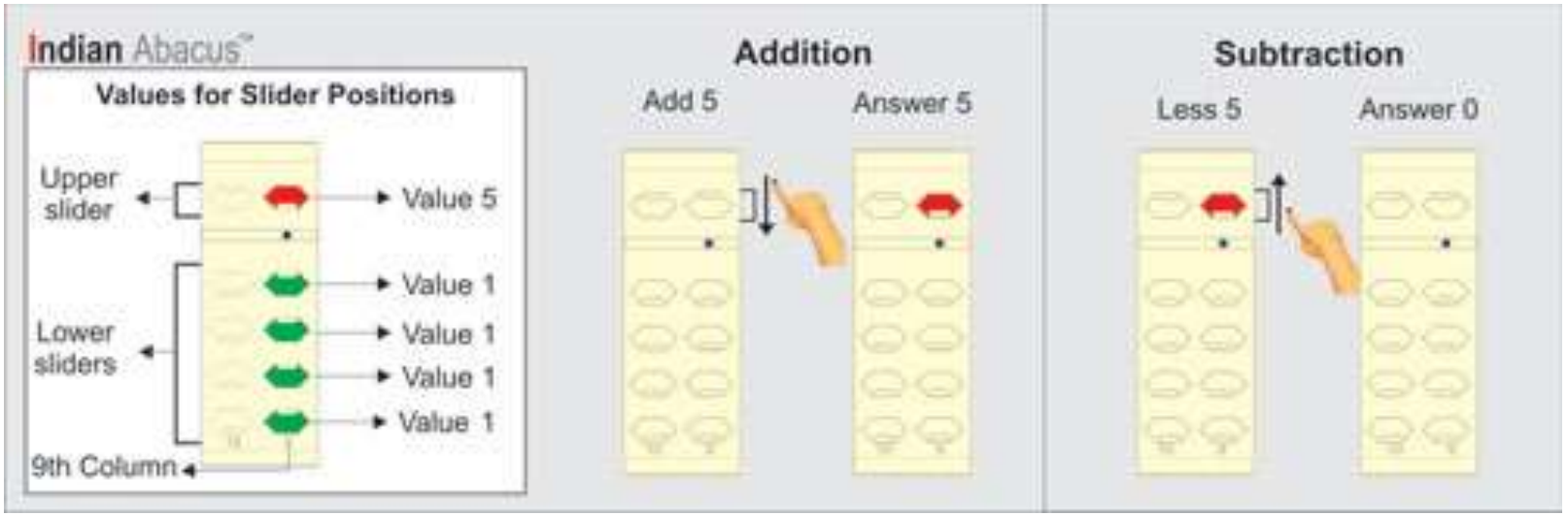


Addition

Move 4 lower sliders together towards the bar using right hand thumb in the 9th / home column as shown in the picture.

Subtraction

Move 4 lower sliders together away from the bar using right hand index finger in the 9th / home column as shown in the picture.**4**,

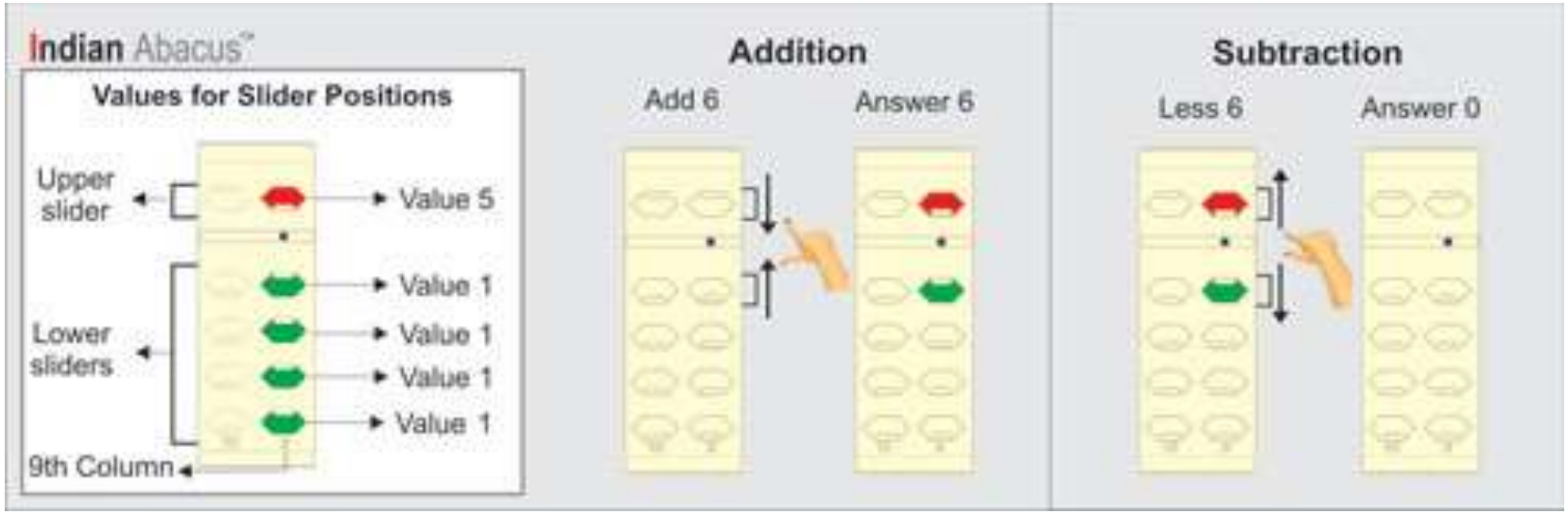


Addition

Move upper slider towards the bar using right hand index finger in the 9th / home column as shown in the picture.

Subtraction

Move upper slider away from the bar using right hand index finger in the 9th / home column as shown in the picture.**5**,

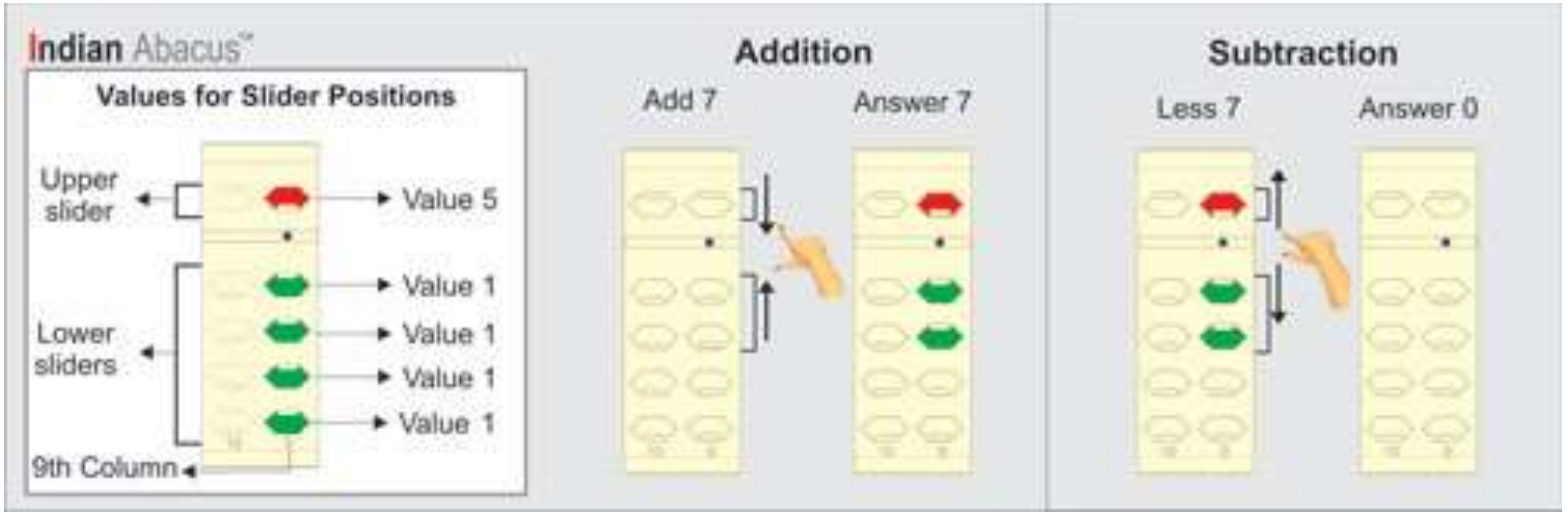


Addition

Move upper and a lower slider together towards the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.

Subtraction

Move upper and lower slider together away from the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.**6**,

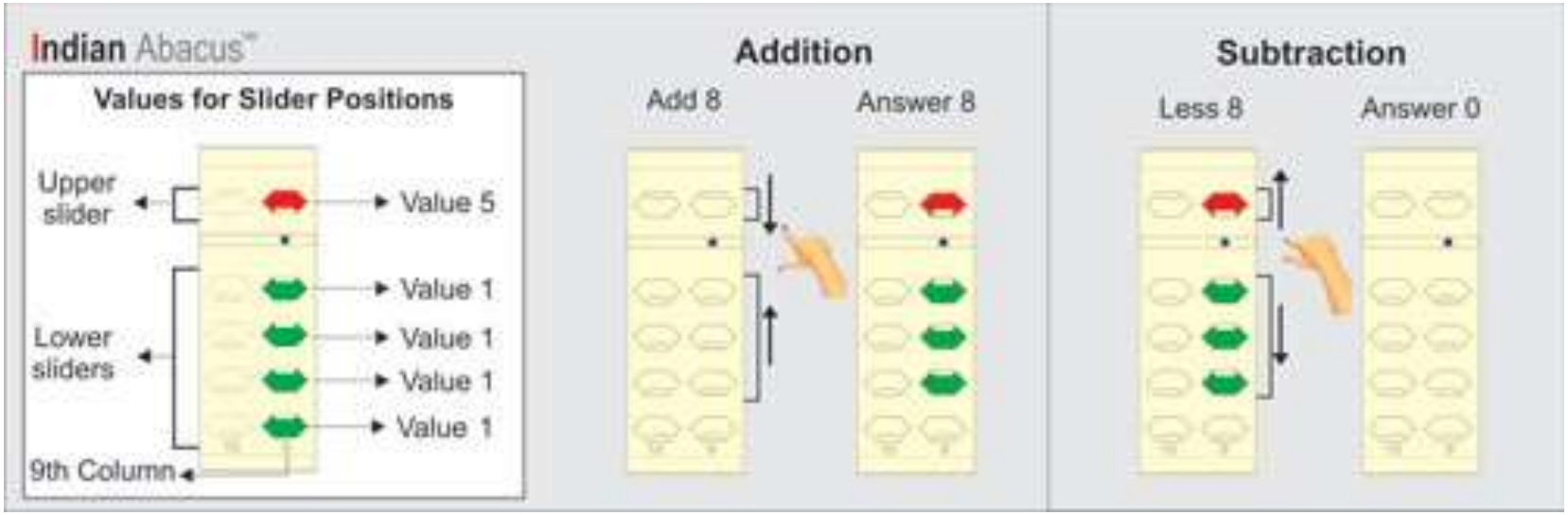


Addition

Move upper and 2 lower sliders together towards the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.

Subtraction

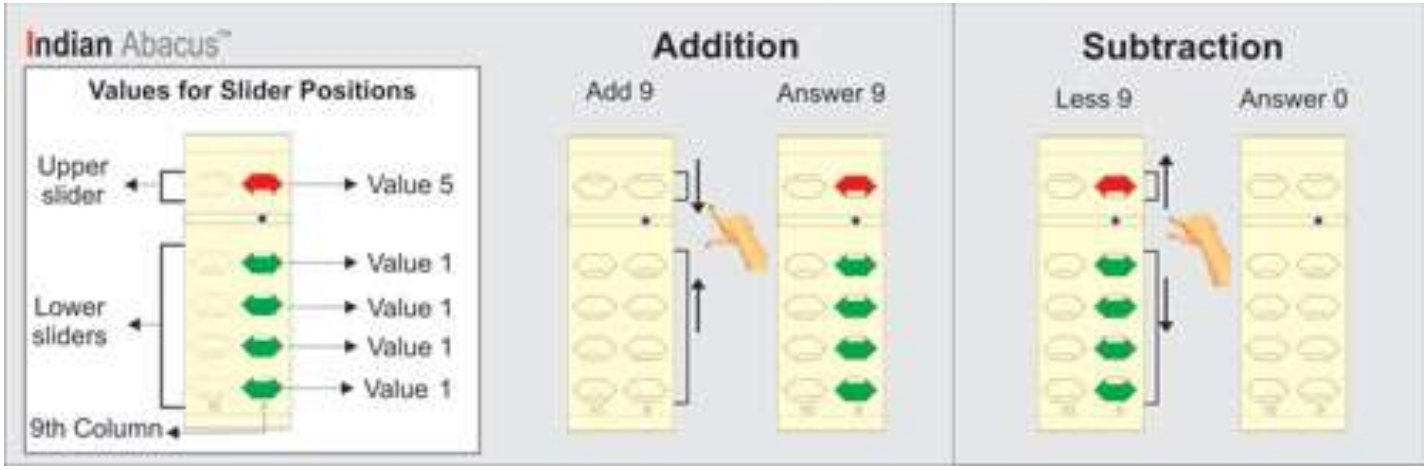
Move upper and 2 lower sliders together away from the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.**7**,



Basics of using the Abacus

Addition: Move upper and 3 lower sliders together towards the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.

Subtraction: Move upper and 3 lower sliders together away from the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.**8**,

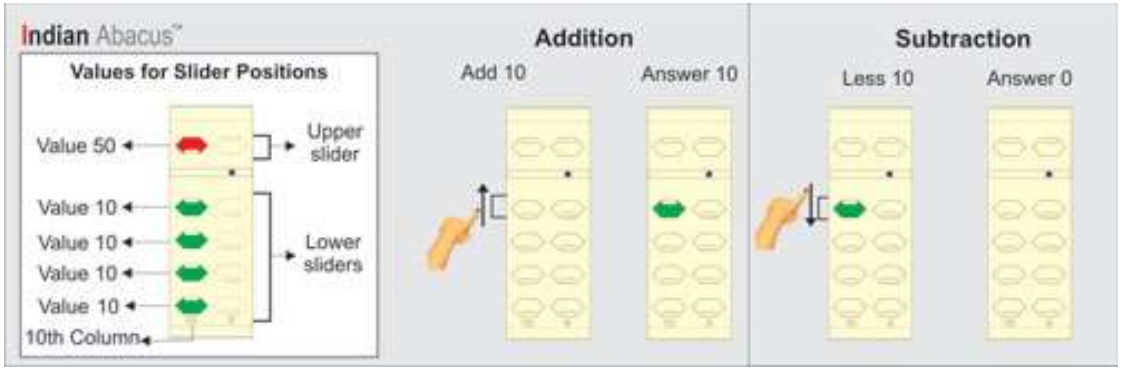


Addition: Move upper and 4 lower sliders together towards the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.

Subtraction: Move upper and 4 lower sliders together away from the bar using right hand index finger and thumb together in the 9th / home column as shown in the picture.**9** as the case may be. When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.

Basics of using the Abacus

2. The **10th column** on the left side gets increased with ten times more value. The upper slider represents the value as Fifty (50) of this column and the lower slider represents the value as Ten (10) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example

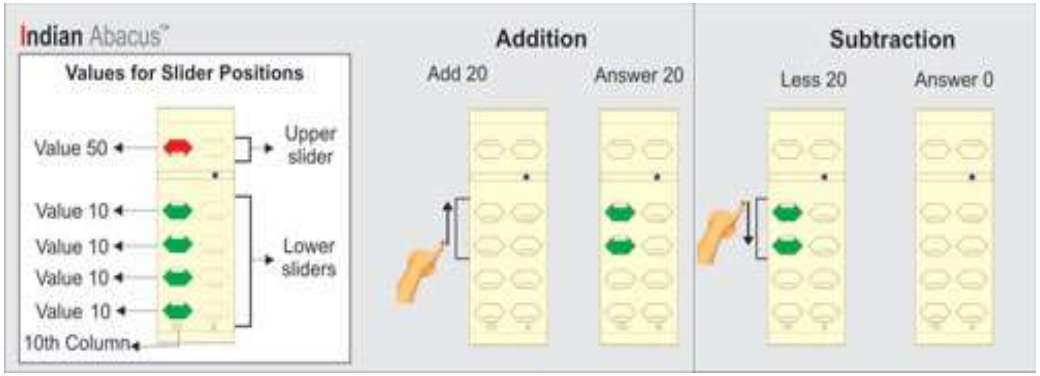


Addition

Move 1 lower slider towards the bar using left hand index finger in the 10th column as shown in the picture.

Subtraction

Move 1 lower slider away from the bar using left hand index finger in the 10th column as shown in the picture.**10**,



Indian Abacus
The New Generation Tool

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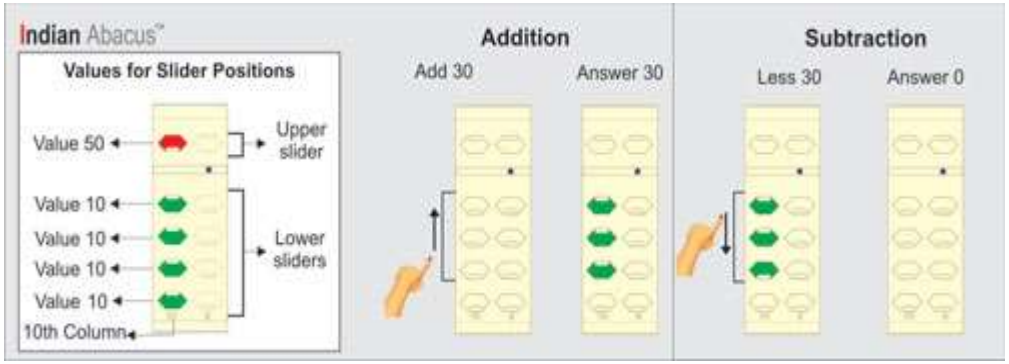
BRAIN EDUCATION & TRAINING SKILLS

Basics of using the Abacus



Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 10th column as shown in the picture.

Subtraction

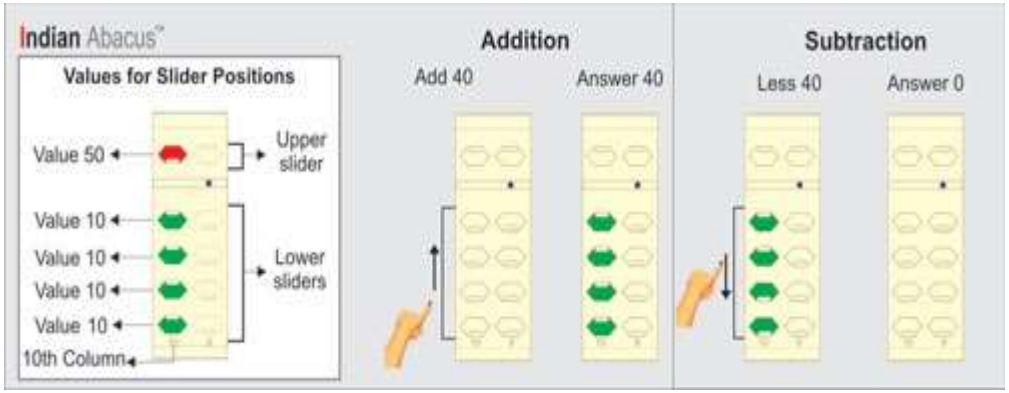
Move 2 lower sliders together away from the bar using left hand index finger in the 10th column as shown in the picture.**20**,

Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 10th column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using left hand index finger in the 10th column as shown in the picture.**30**,



Indian Abacus
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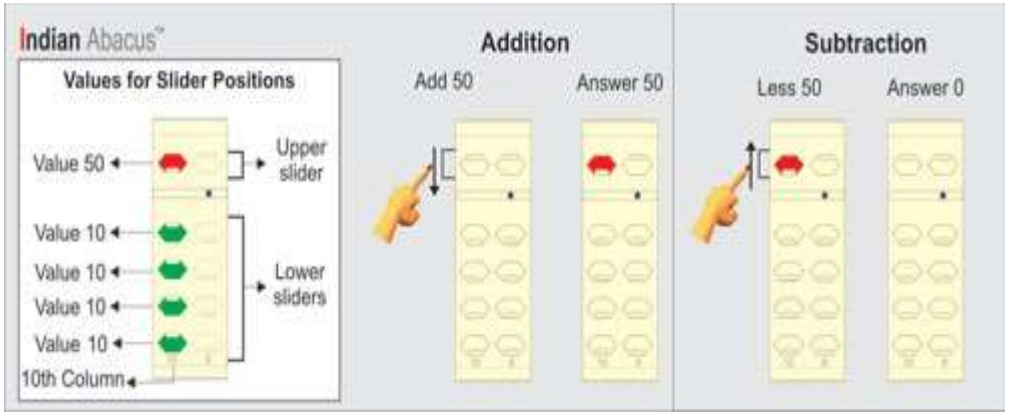
Basics of using the Abacus



Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 10th column as shown in the picture.

Subtraction

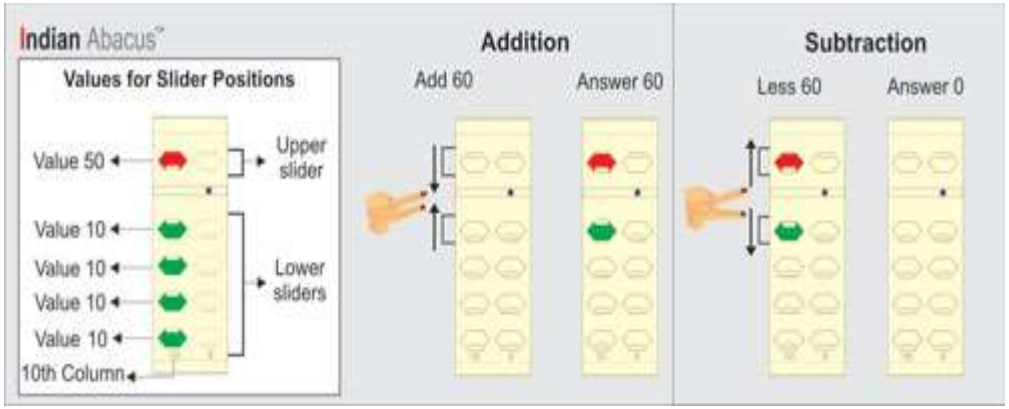
Move 4 lower sliders together away from the bar using left hand index finger in the 10th column as shown in the picture.**40**,

Addition

Move upper slider towards the bar using left hand middle finger in the 10th column as shown in the picture.

Subtraction

Move upper slider away from the bar using left hand middle finger in the 10th column as shown in the picture.**50**,



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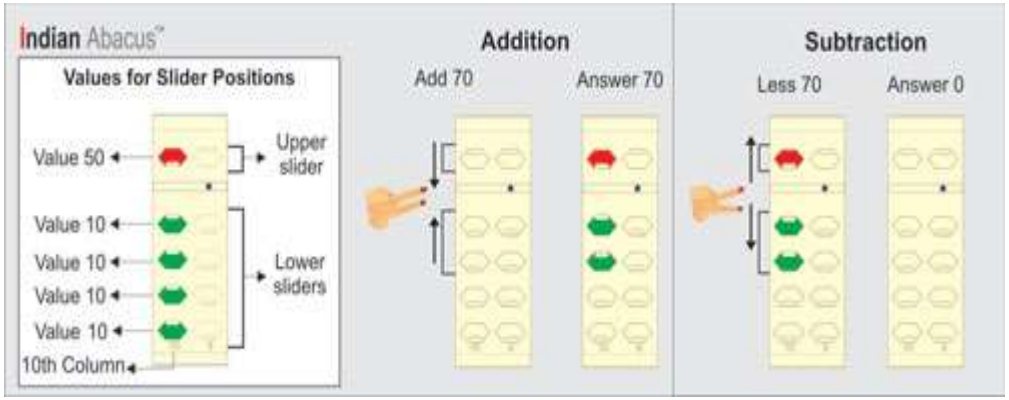
Basics of using the Abacus



Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 10th column as shown in the picture.

Subtraction

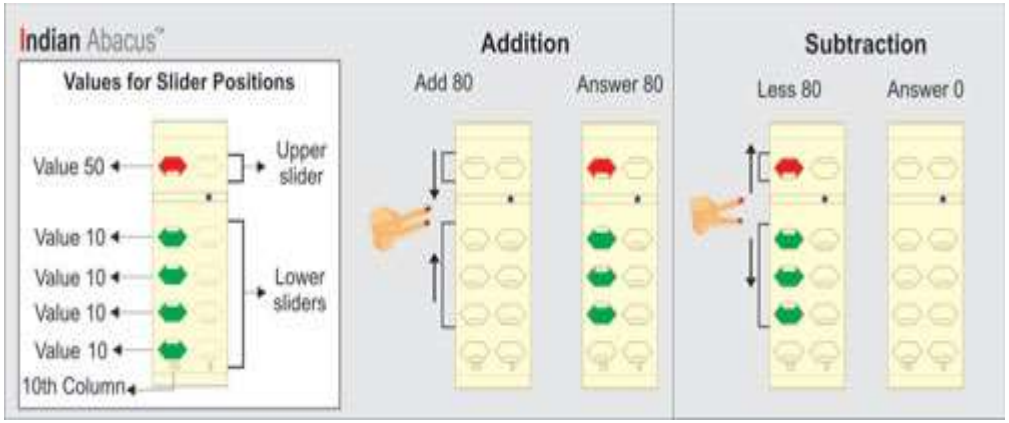
Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 10th column as shown in the picture.**60**,

Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 10th column as shown in the picture.

Subtraction

Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 10th column as shown in the picture.**70**,



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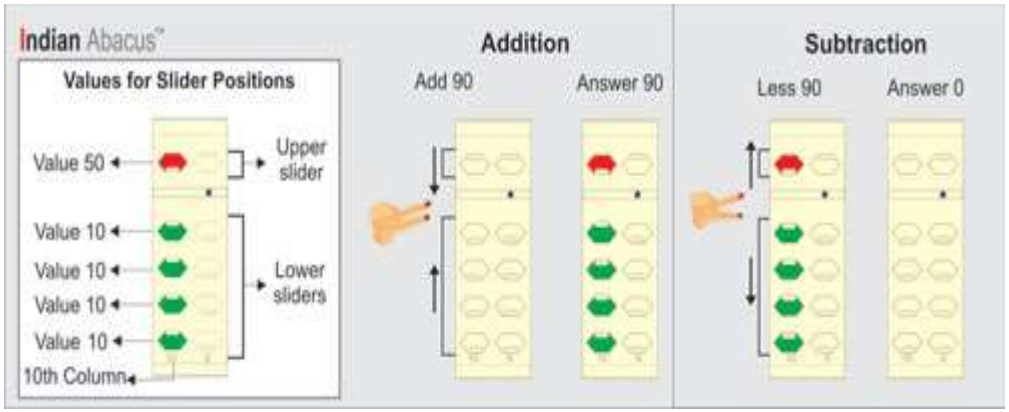


Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 10th column as shown in the picture.

Subtraction

Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 10th column as shown in the picture.**80**,

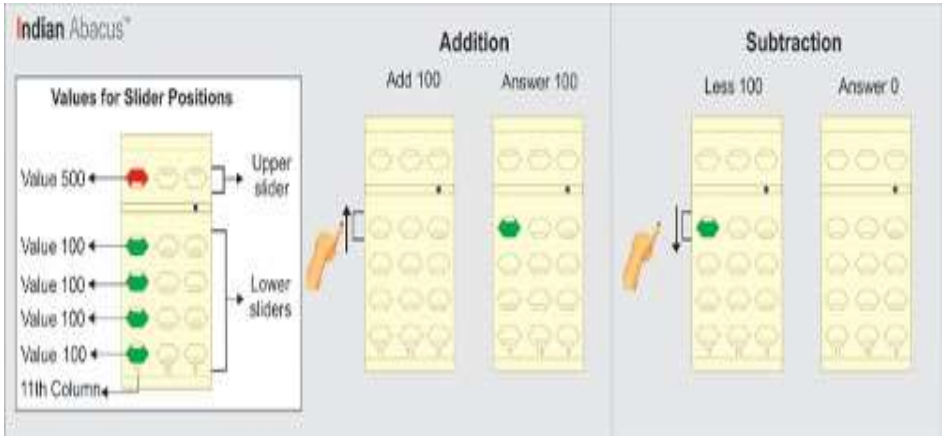
Addition

Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 10th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 10th column as shown in the picture.**90**. When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.

•The **11th column** on the left side gets increased with ten times more value. The upper slider represents the value as Five Hundred (500) of this column and the lower slider represents the value as One Hundred (100) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example



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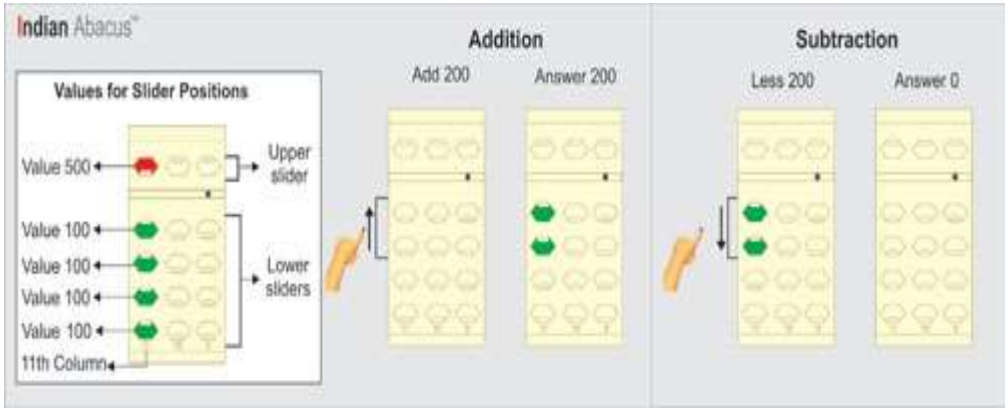


Addition

Move a lower slider towards the bar using left hand index finger in the 11th column as shown in the picture.

Subtraction

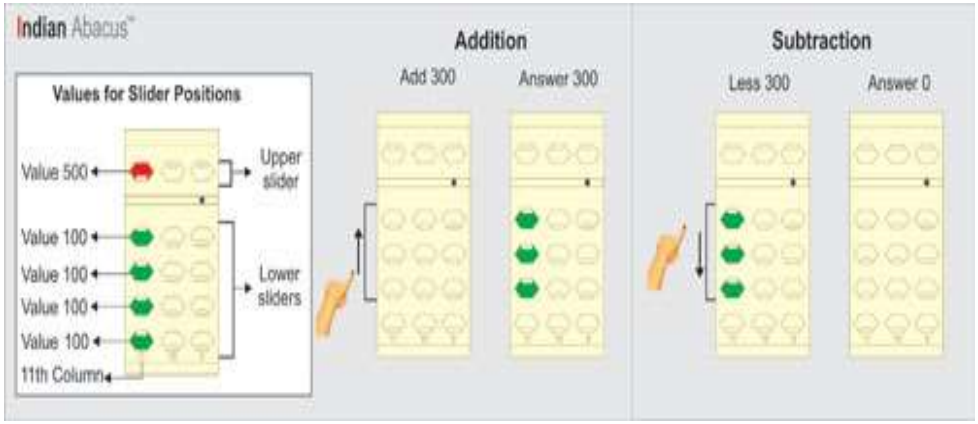
Move a lower slider away from the bar using left hand index finger in the 11th column as shown in the picture.**100**,

Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 11th column as shown in the picture.

Subtraction

Move 2 lower sliders together away from the bar using left hand index finger in the 11th column as shown in the picture.**200**,



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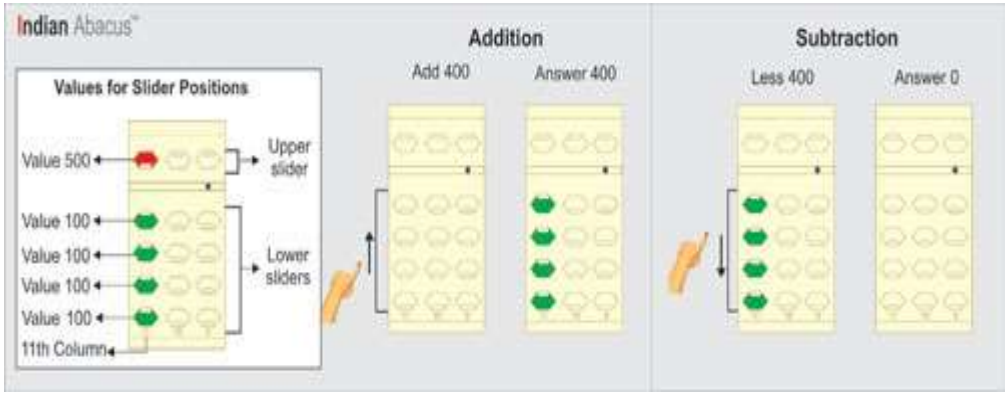


Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 11th column as shown in the picture.

Subtraction

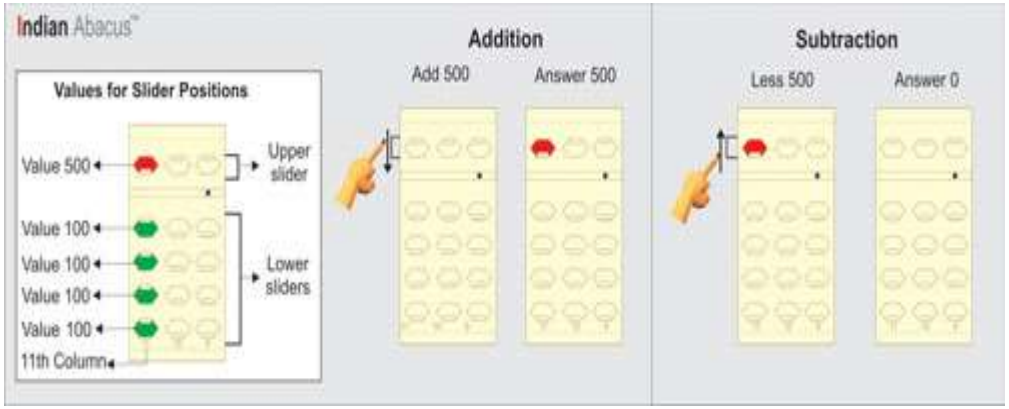
Move 3 lower sliders together away from the bar using left hand index finger in the 11th column as shown in the picture.**300**,

Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 11th column as shown in the picture.

Subtraction

Move 4 lower sliders together away from the bar using left hand index finger in the 11th column as shown in the picture.**400**,



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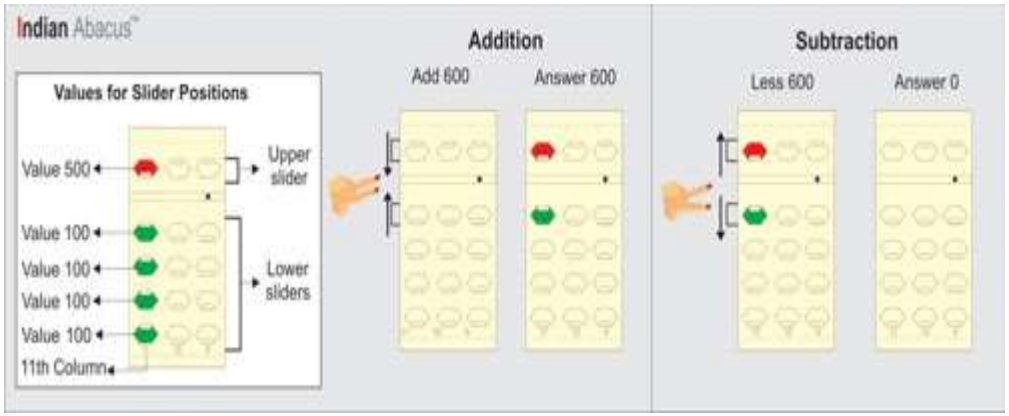


Addition

Move upper slider together towards the bar using left hand middle finger in the 11th column as shown in the picture.

Subtraction

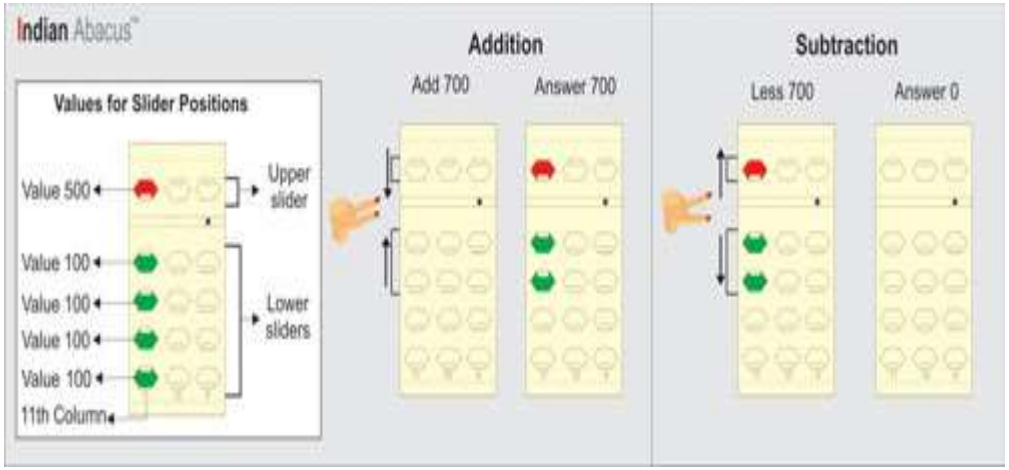
Move upper slider together away from the bar using left hand middle finger in the 11th column as shown in the picture.**500**,

Addition

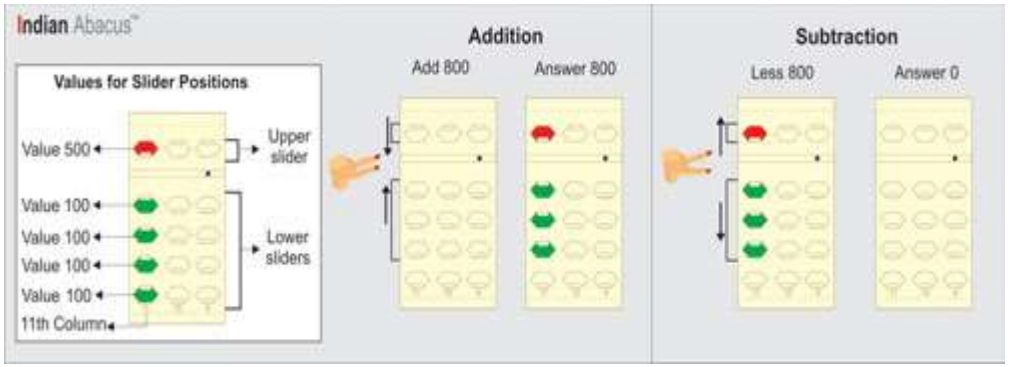
Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 11th column as shown in the picture.

Subtraction

Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 11th column as shown in the picture.**600**,



Basics of using the Abacus



Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 11th column as shown in the picture.

Subtraction

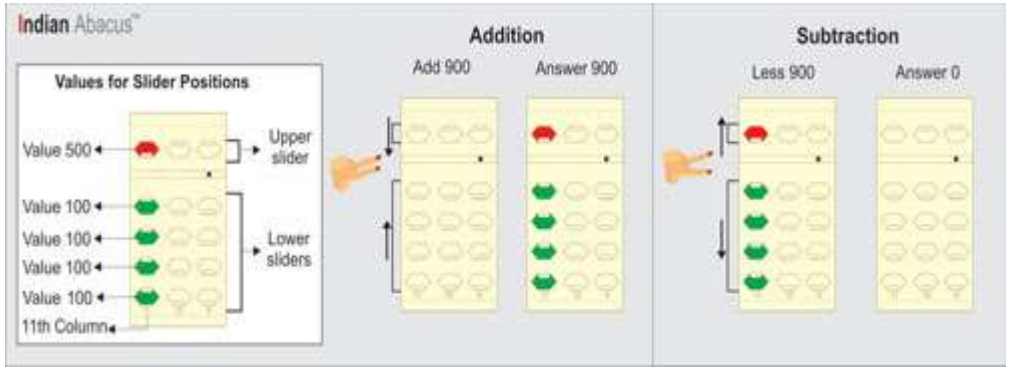
Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 11th column as shown in the picture.**700**,

Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 11th column as shown in the picture.

Subtraction

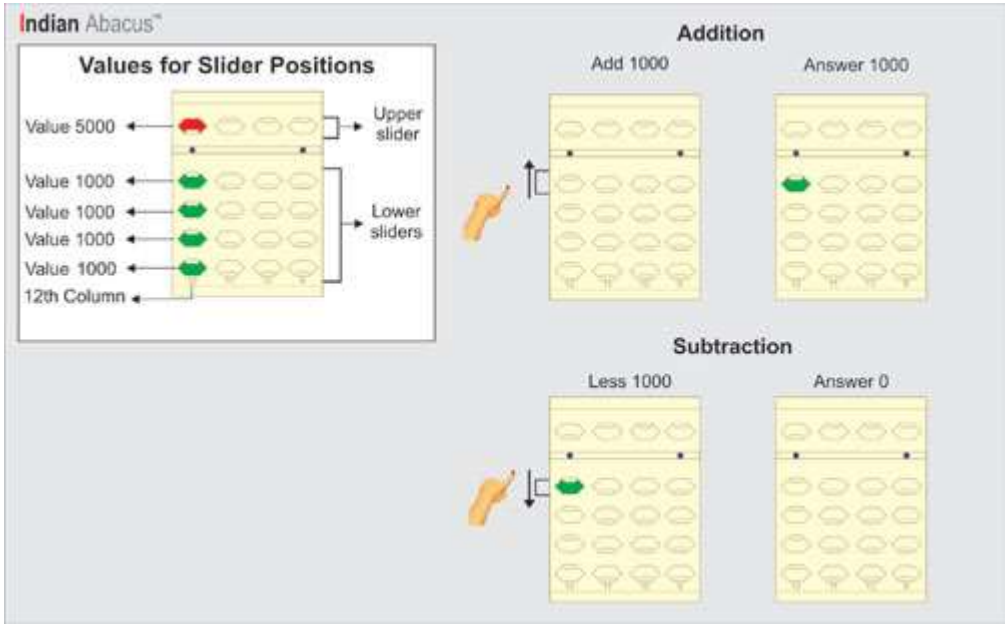
Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 11th column as shown in the picture.**800**,



Addition: Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 11th column as shown in the picture.

Subtraction: Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 11th column as shown in the picture. **900.** When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.

4. The **12th column** on the left side gets increased with ten times more value. The upper slider represents the value as Five Thousand (5000) of this column and the lower slider represents the value as One Thousand (1000) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example



Addition

Move a lower slider towards the bar using left hand index finger in the 12th column as shown in the picture.

Subtraction

Move a lower slider away from the bar using left hand index finger in the 12th column as shown in the picture.**1000**,

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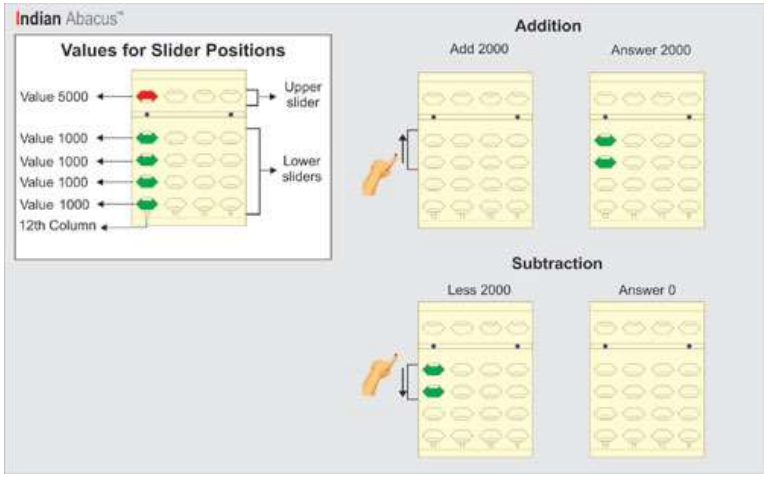


Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 12th column as shown in the picture.

Subtraction

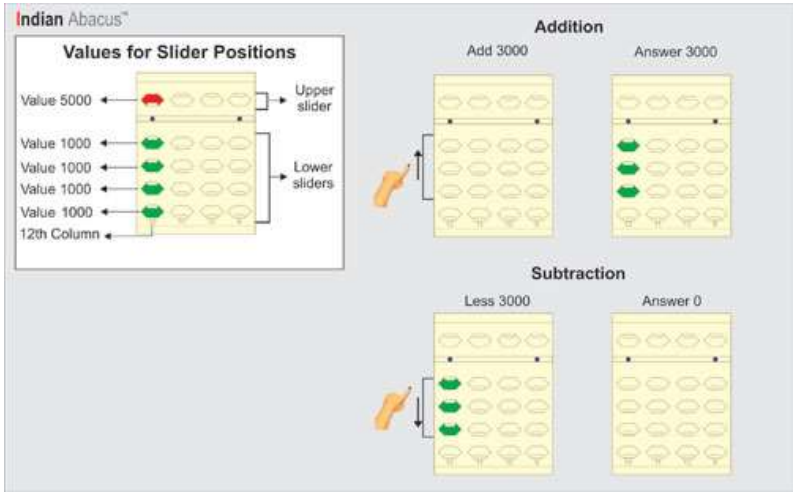
Move 2 lower sliders together away from the bar using left hand index finger in the 12th column as shown in the picture.**2000**,

Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 12th column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using left hand index finger in the 12th column as shown in the picture.**3000**,



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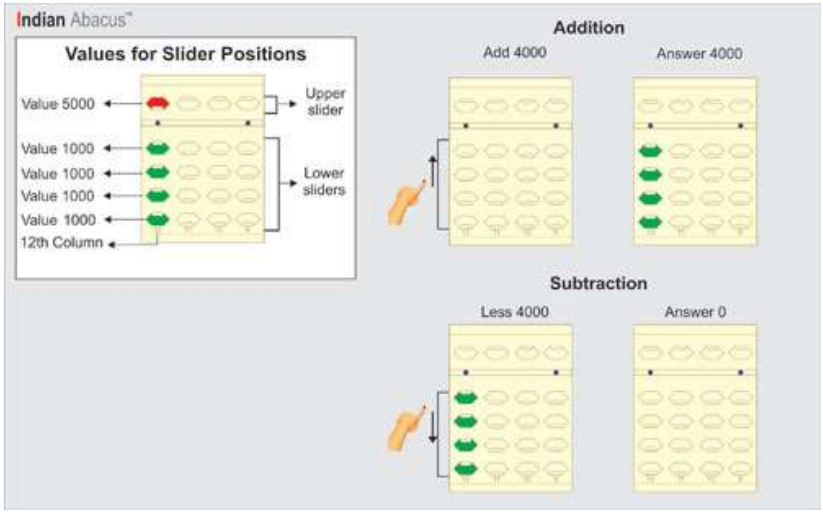


Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 12th column as shown in the picture.

Subtraction

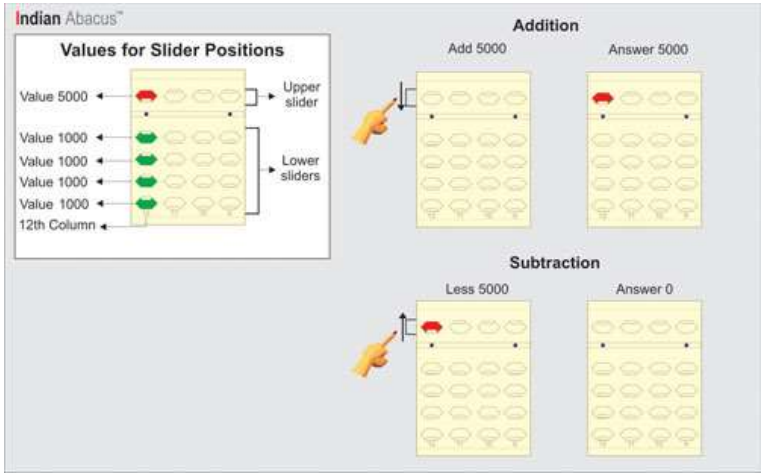
Move 4 lower sliders together away from the bar using left hand index finger in the 12th column as shown in the picture.**4000**,

Addition

Move upper slider towards the bar using left hand middle finger in the 12th column as shown in the picture.

Subtraction

Move upper slider away from the bar using left hand middle finger in the 12th column as shown in the picture.**5000**,



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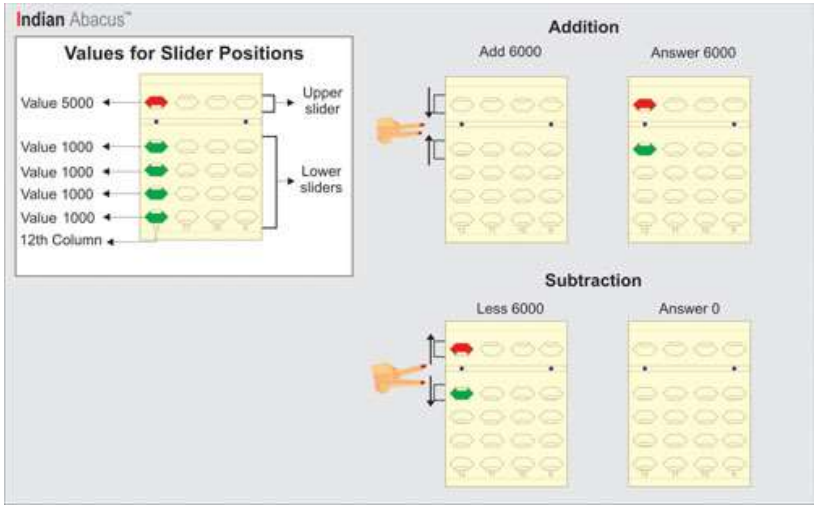


Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 12th column as shown in the picture.

Subtraction

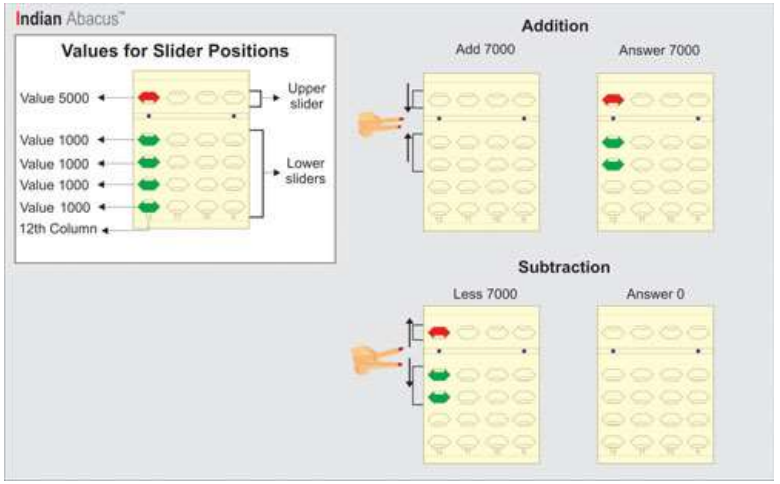
Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 12th column as shown in the picture.**6000**,

Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 12th column as shown in the picture.

Subtraction

Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 12th column as shown in the picture.**7000**,



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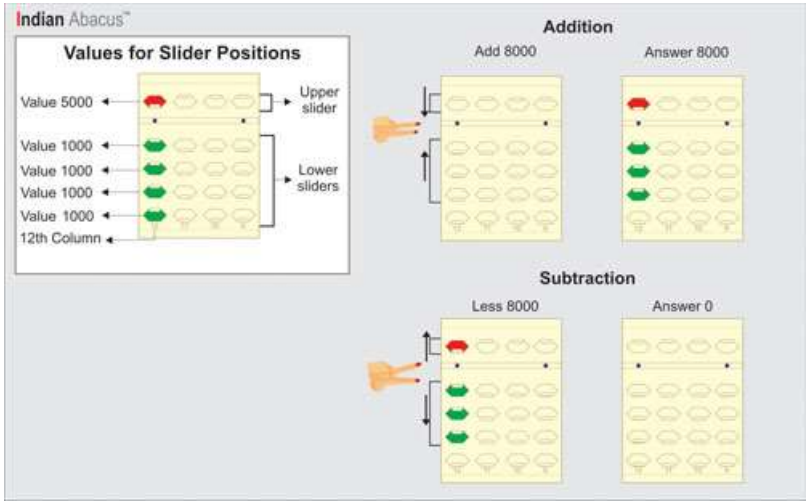


Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 12th column as shown in the picture.

Subtraction

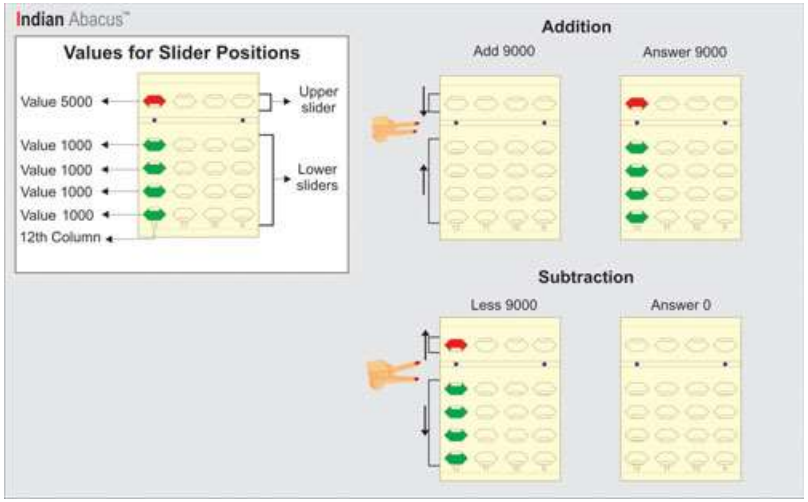
Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 12th column as shown in the picture.**8000**,

Addition

Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 12th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 12th column as shown in the picture.**9000**
When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.



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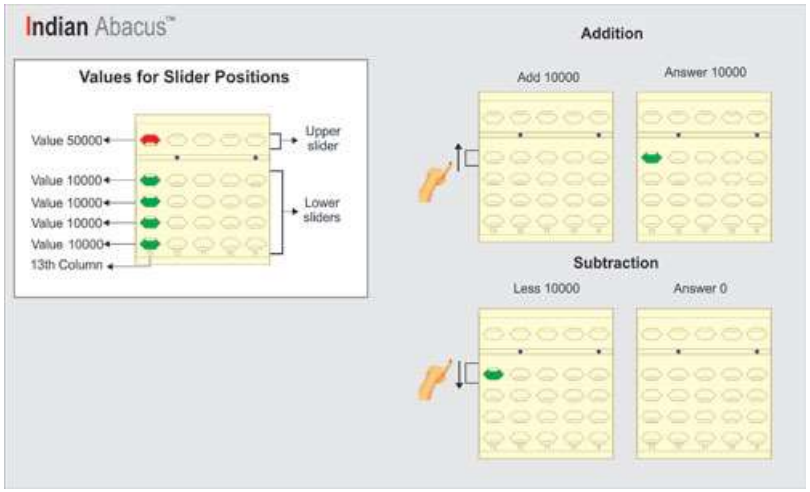


Addition

Move a lower slider towards the bar using left hand index finger in the 13th column as shown in the picture.

Subtraction

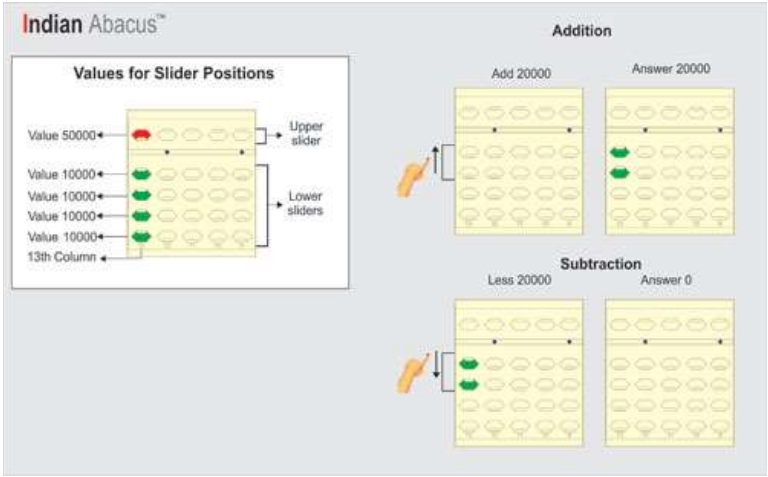
Move a lower slider away from the bar using left hand index finger in the 13th column as shown in the picture.**10000**,

Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 13th column as shown in the picture.

Subtraction

Move 2 lower sliders together away from the bar using left hand index finger in the 13th column as shown in the picture.**20000**,



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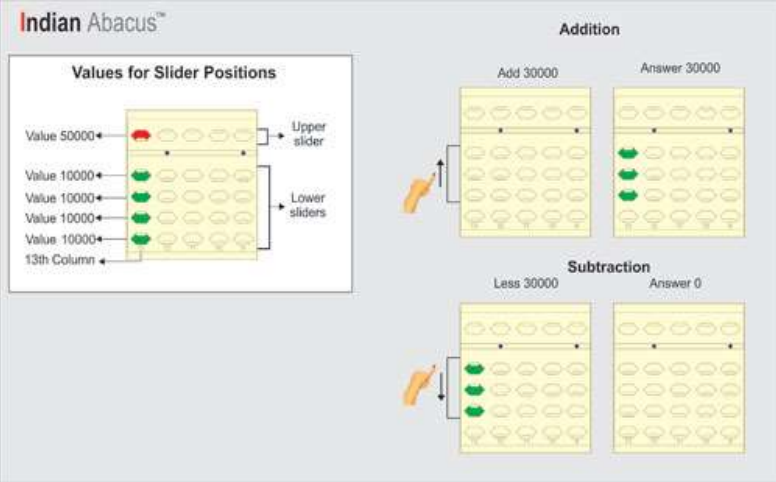


Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 13th column as shown in the picture.

Subtraction

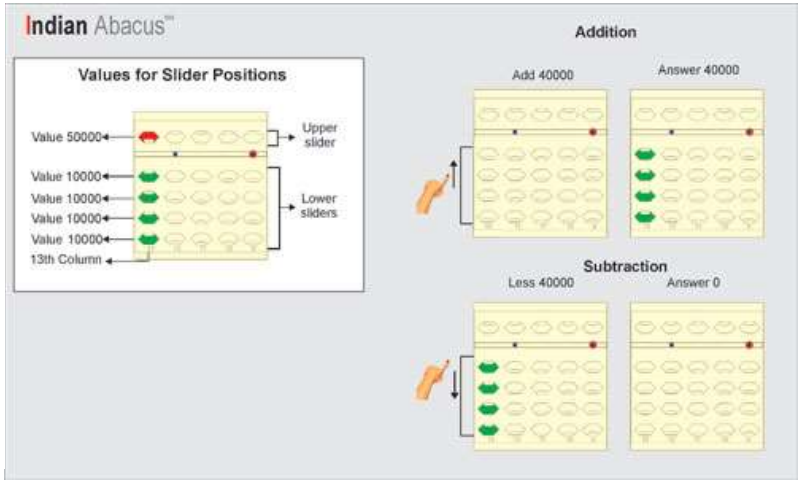
Move 3 lower sliders together away from the bar using left hand index finger in the 13th column as shown in the picture.**30000**,

Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 13th column as shown in the picture.

Subtraction

Move 4 lower sliders together away from the bar using left hand index finger in the 13th column as shown in the picture.**40000**,



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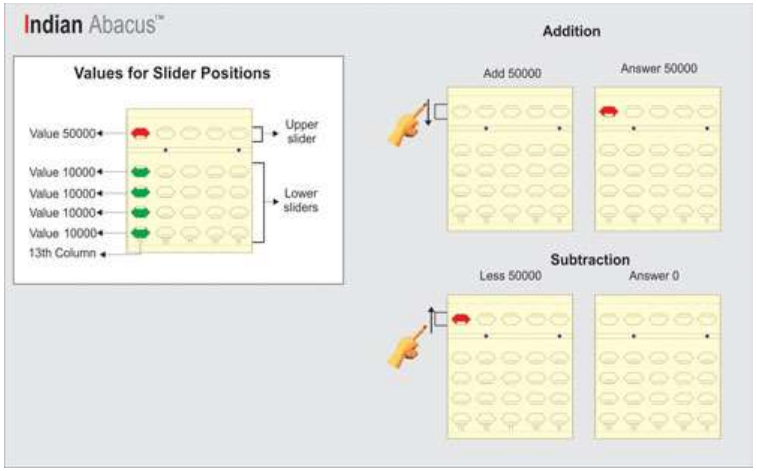


Addition

Move upper slider towards the bar using left hand middle finger in the 13th column as shown in the picture.

Subtraction

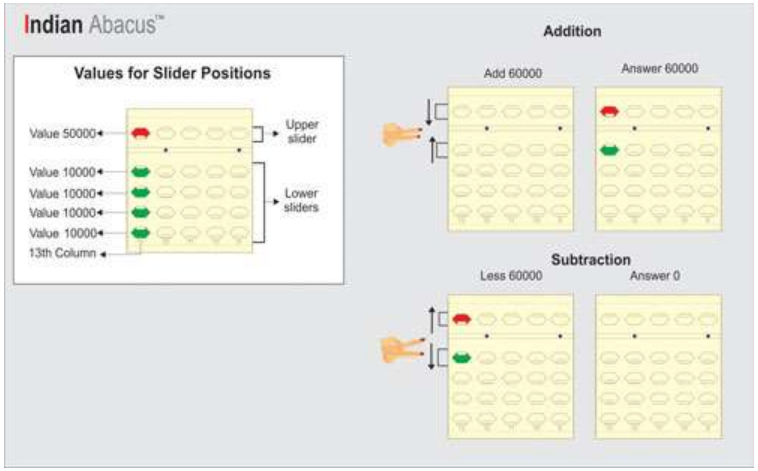
Move upper slider away from the bar using left hand middle finger in the 13th column as shown in the picture.**50000**,

Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 13th column as shown in the picture.

Subtraction

Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 13th column as shown in the picture.**60000**,



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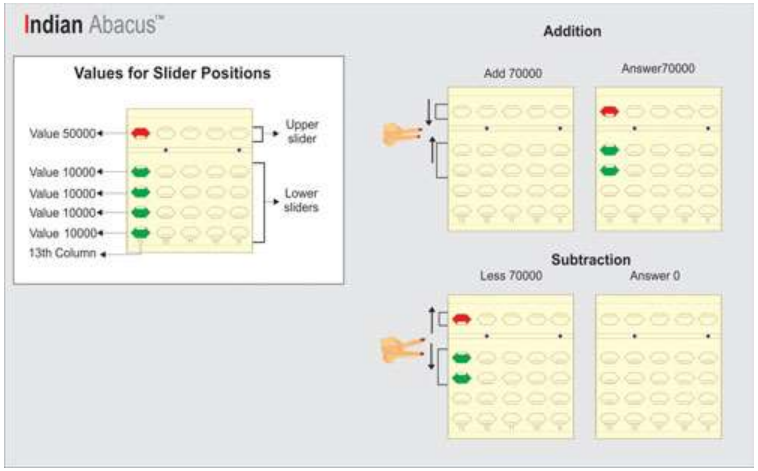


Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 13th column as shown in the picture.

Subtraction

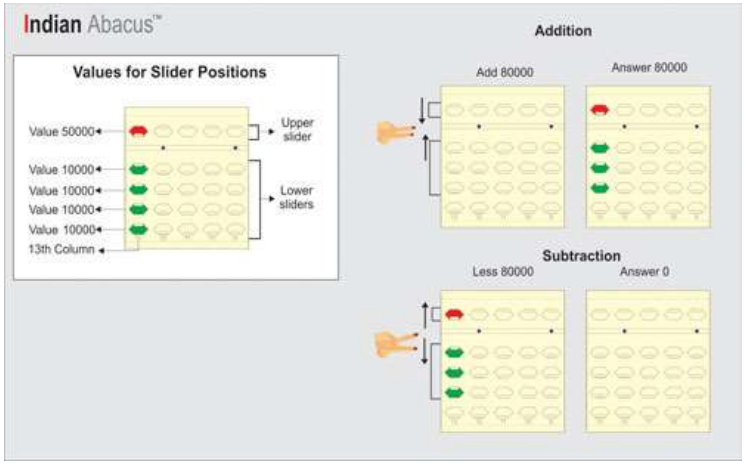
Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 13th column as shown in the picture.**70000**,

Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 13th column as shown in the picture.

Subtraction

Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 13th column as shown in the picture.**80000**,



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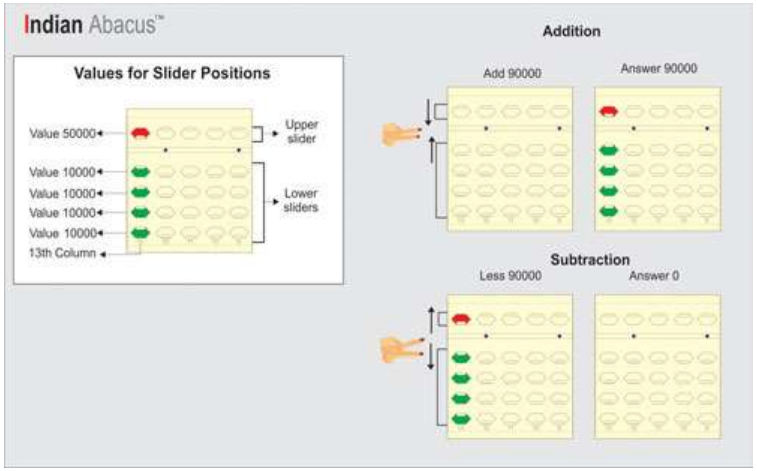


Addition

Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 13th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 13th column as shown in the picture.**90000**

When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.

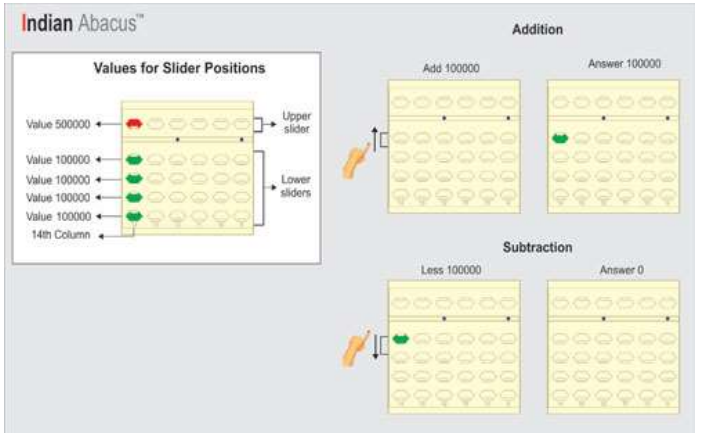
6. The 14th column on the left side gets increased with ten times more value. The upper slider represents the value as Five Lakhs (500000) of this column and the lower slider represents the value as one lakh (100000) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example

Addition

Move a lower slider towards the bar using left hand index finger in the 14th column as shown in the picture.

Subtraction

Move a lower slider away from the bar using left hand index finger in the 14th column as shown in the picture.**100000**,



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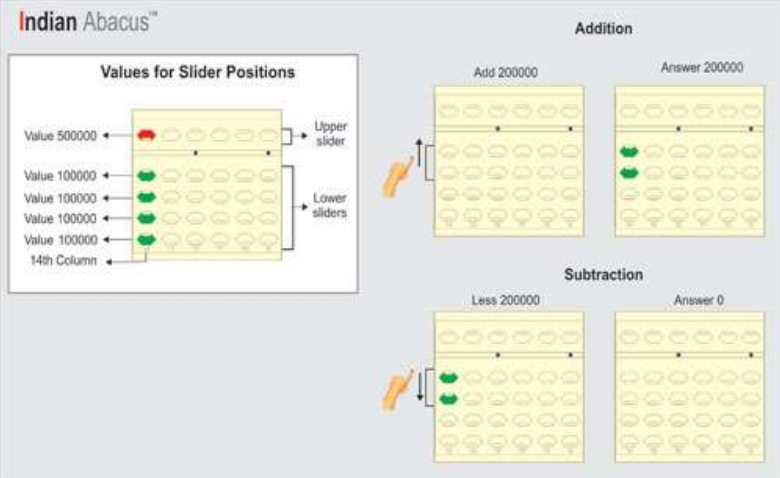


Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 14th column as shown in the picture.

Subtraction

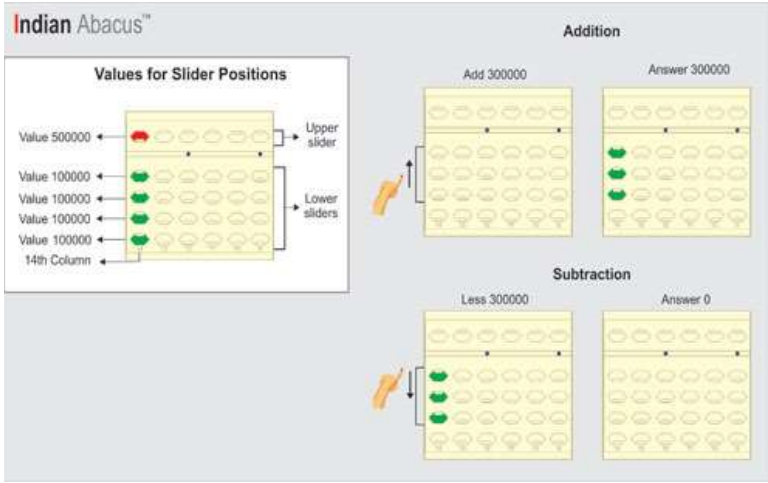
Move 2 lower sliders together away from the bar using left hand index finger in the 14th column as shown in the picture.**200000**,

Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 14th column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using left hand index finger in the 14th column as shown in the picture.**300000**,



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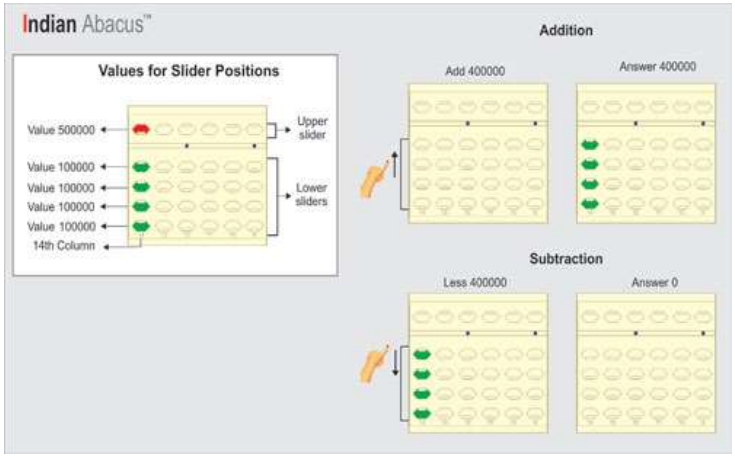


Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 14th column as shown in the picture.

Subtraction

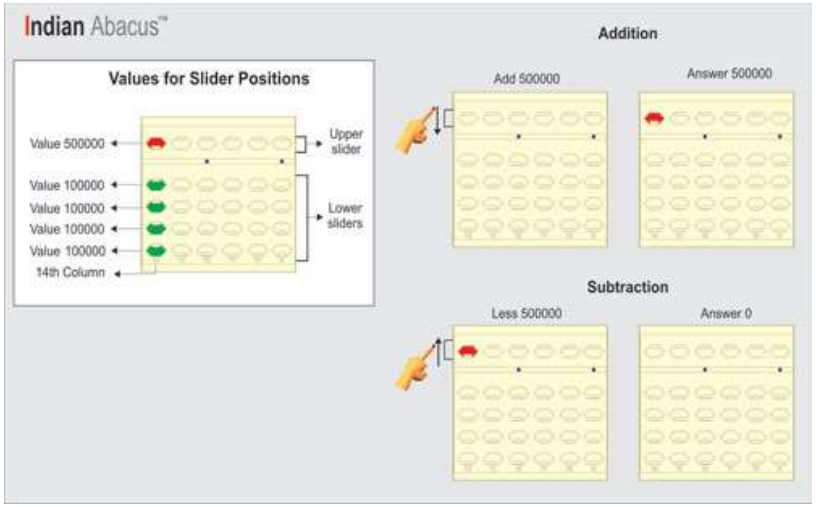
Move 4 lower sliders together away from the bar using left hand index finger in the 14th column as shown in the picture.**400000**,

Addition

Move upper slider towards the bar using left hand middle finger in the 14th column as shown in the picture.

Subtraction

Move upper slider away from the bar using left hand middle finger in the 14th column as shown in the picture.**500000**,



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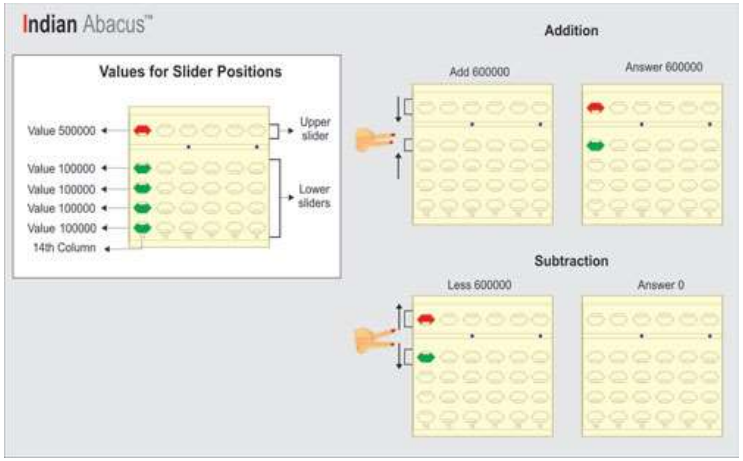


Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 14th column as shown in the picture.

Subtraction

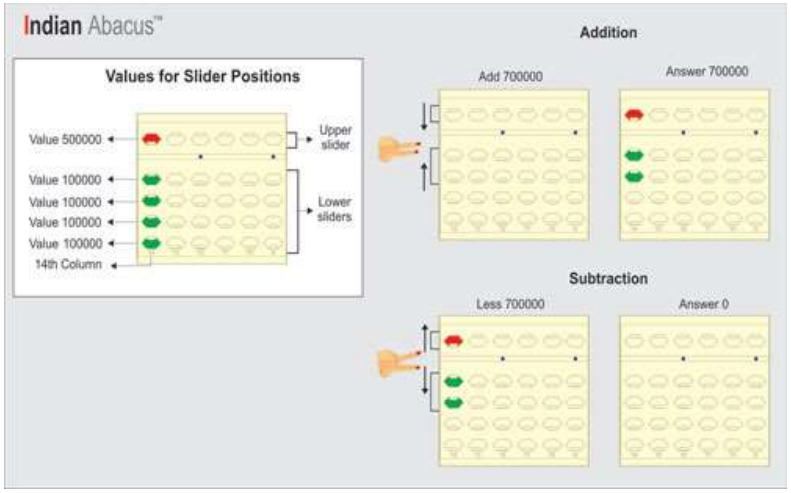
Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 14th column as shown in the picture.**600000**,

Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 14th column as shown in the picture.

Subtraction

Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 14th column as shown in the picture.**700000**,



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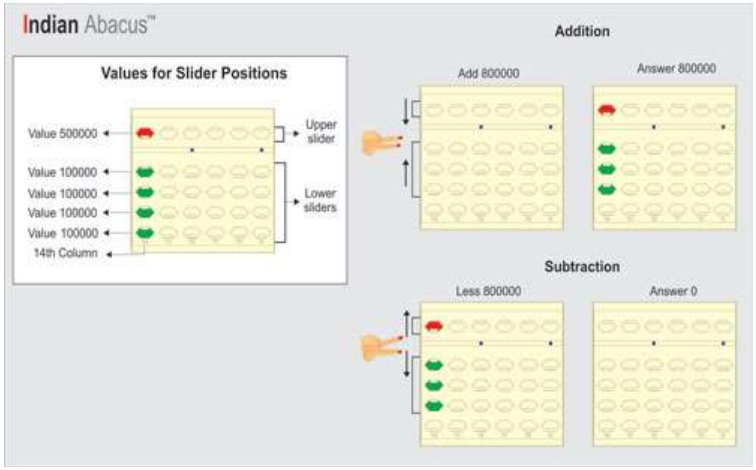


Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 14th column as shown in the picture.

Subtraction

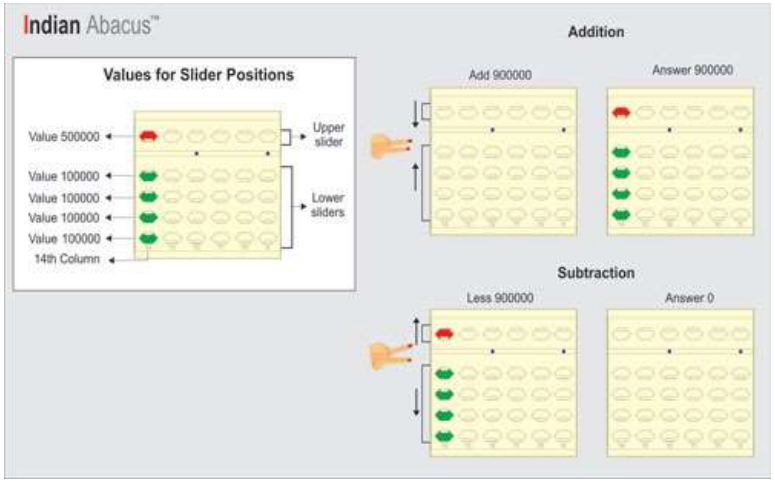
Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 14th column as shown in the picture.**800000**,

Addition

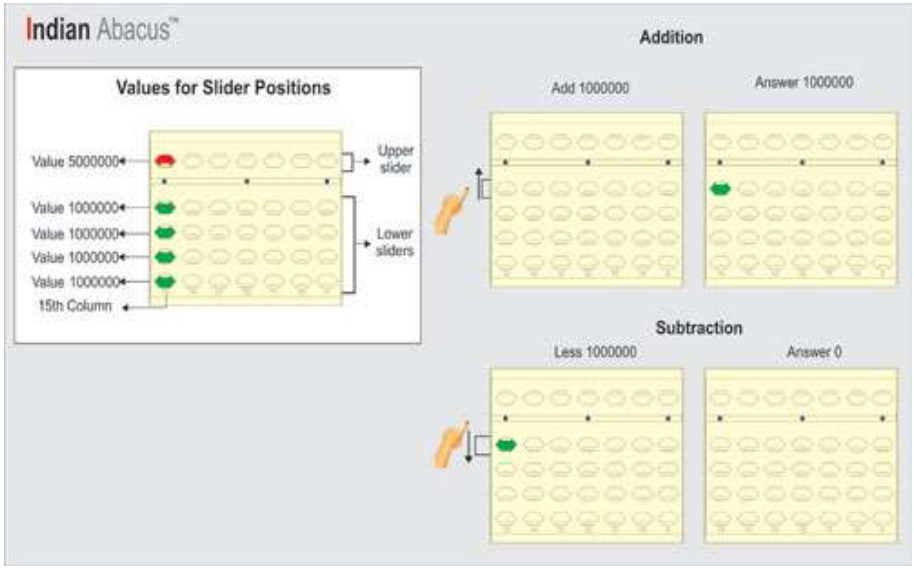
Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 14th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 14th column as shown in the picture.**900000**
When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.



7. The **15th column** on the left side gets increased with ten times more value. The upper slider represents the value as Fifty Lakhs (5000000) of this column and the lower slider represents the value as Ten lakhs (1000000) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example



Addition

Move a lower slider towards the bar using left hand index finger in the 15th column as shown in the picture.

Subtraction

Move a lower slider away from the bar using left hand index finger in the 15th column as shown in the picture.**1000000**,

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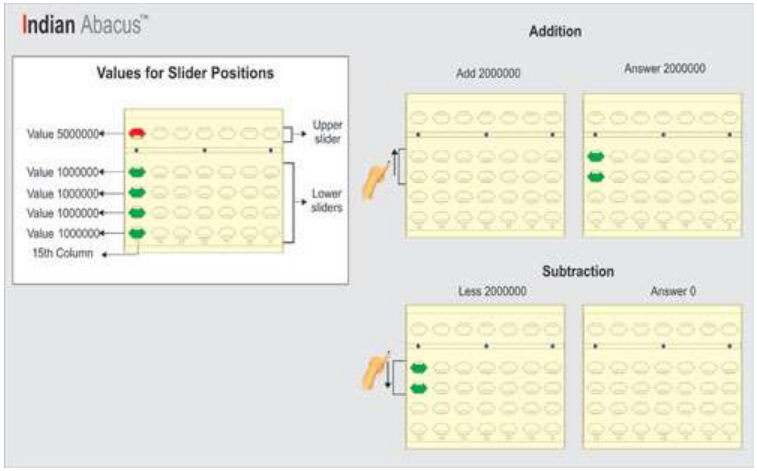


Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 15th column as shown in the picture.

Subtraction

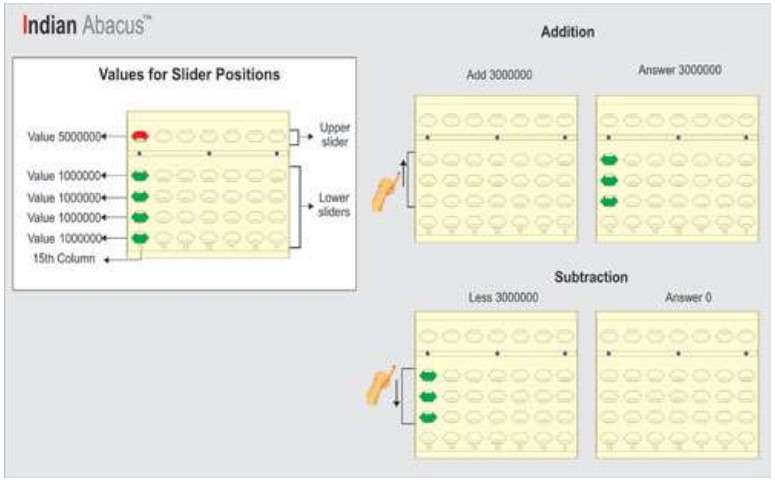
Move 2 lower sliders together away from the bar using left hand index finger in the 15th column as shown in the picture.**2000000**,

Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 15th column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using left hand index finger in the 15th column as shown in the picture.**3000000**,



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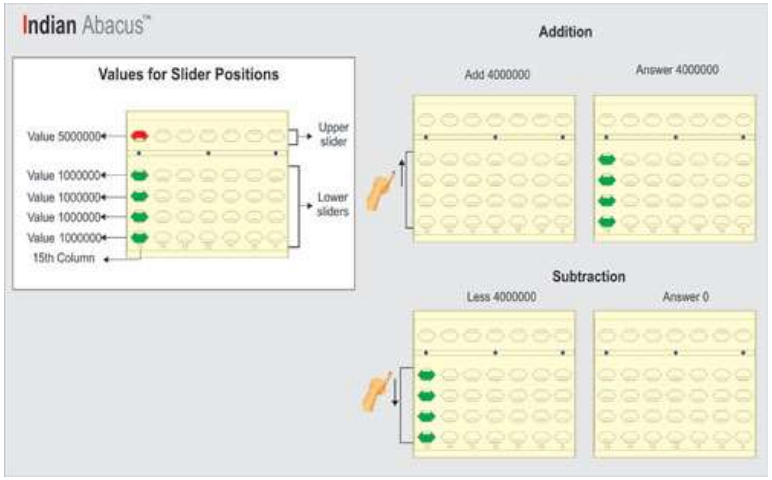


Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 15th column as shown in the picture.

Subtraction

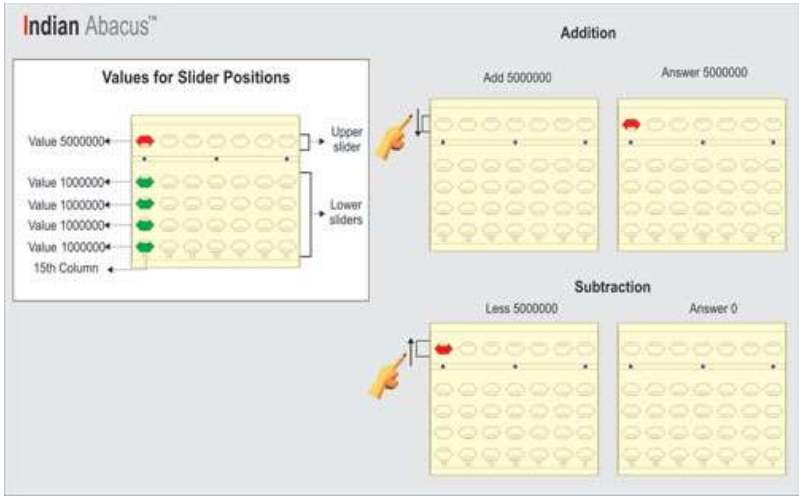
Move 4 lower sliders together away from the bar using left hand index finger in the 15th column as shown in the picture.**4000000**,

Addition

Move upper slider towards the bar using left hand middle finger in the 15th column as shown in the picture.

Subtraction

Move upper slider away from the bar using left hand middle finger in the 15th column as shown in the picture.**5000000**,



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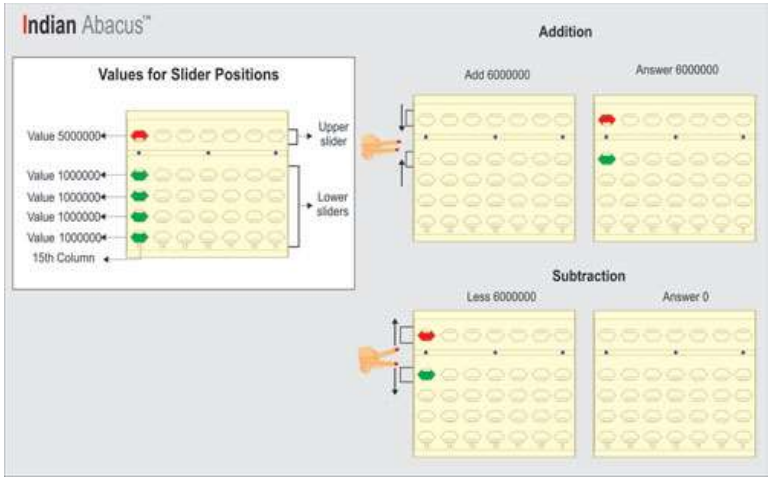


Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 15th column as shown in the picture.

Subtraction

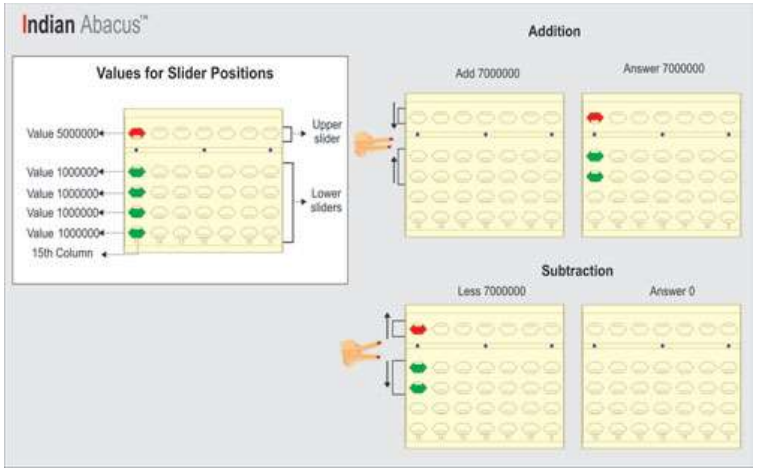
Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 15th column as shown in the picture.**6000000**,

Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 15th column as shown in the picture.

Subtraction

Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 15th column as shown in the picture.**7000000**,



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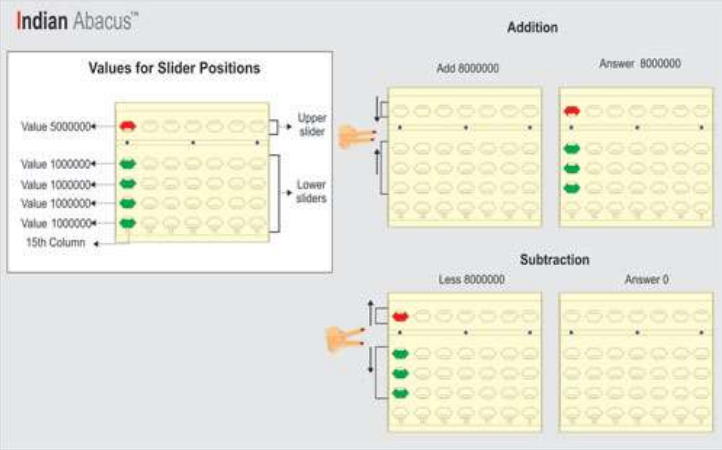


Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 15th column as shown in the picture.

Subtraction

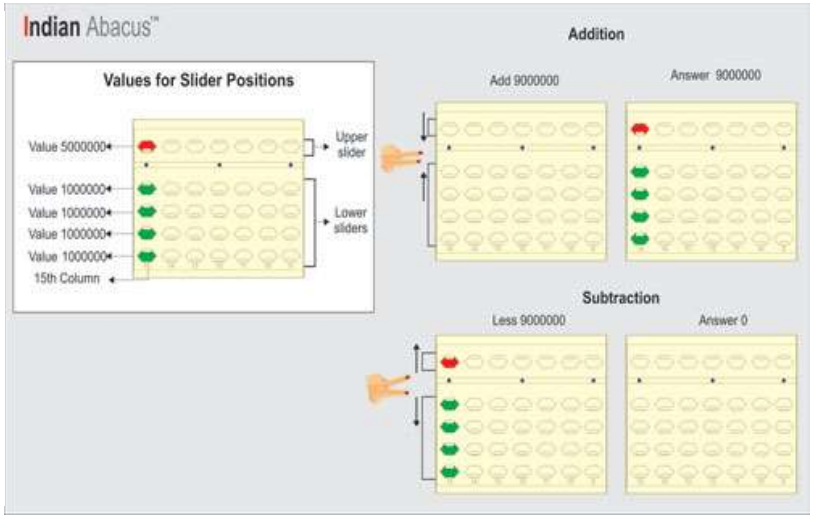
Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 15th column as shown in the picture.**8000000**,

Addition

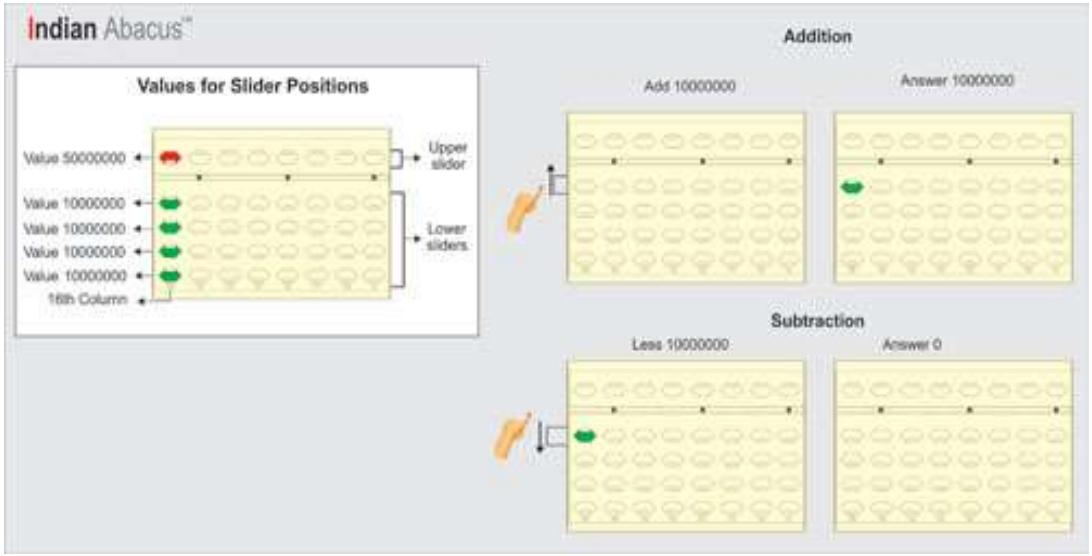
Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 15th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 15th column as shown in the picture.**9000000**.
When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.



8. The **16th column** on the left side gets increased with ten times more value. The upper slider represents the value as Five Crores (50000000) of this column and the lower slider represents the value as one crore (10000000) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example



Addition
Move a lower slider towards the bar using left hand index finger in the 16th column as shown in the picture.

Subtraction
Move a lower slider away from the bar using left hand index finger in the 16th column as shown in the picture.**10000000**,

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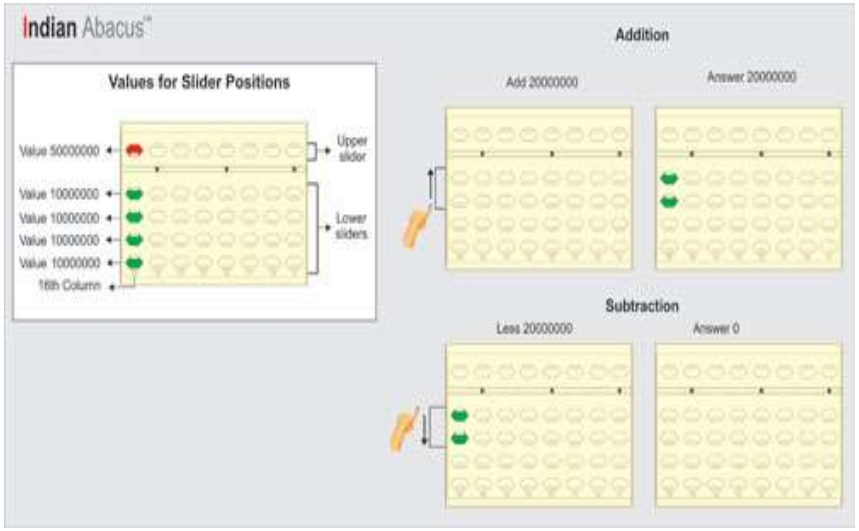


Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 16th column as shown in the picture.

Subtraction

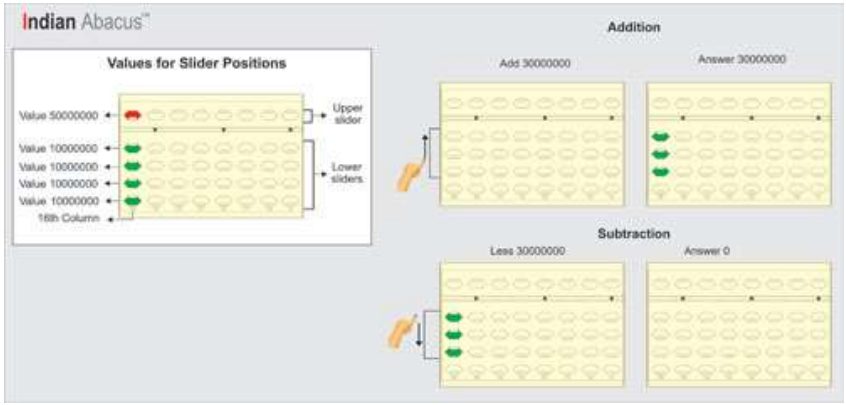
Move 2 lower sliders together away from the bar using left hand index finger in the 16th column as shown in the picture.**20000000**,

Addition

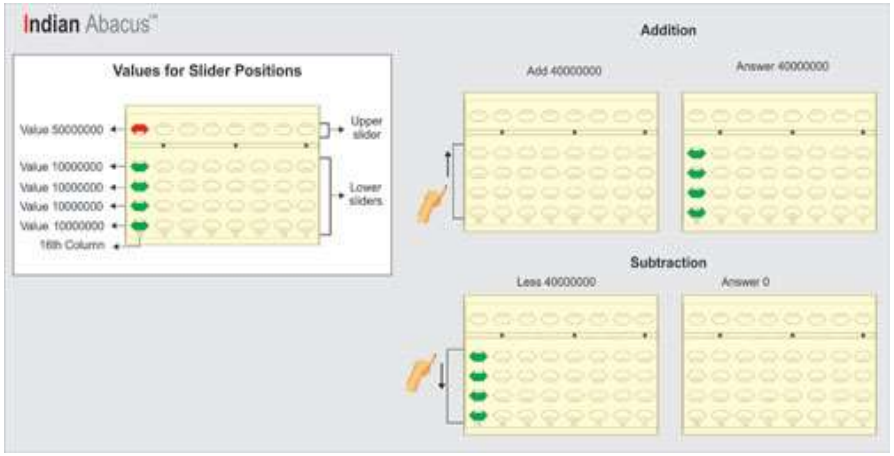
Move 3 lower sliders together towards the bar using left hand index finger in the 16th column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using left hand index finger in the 16th column as shown in the picture.**30000000**,



Basics of using the Abacus



Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 16th column as shown in the picture.

Subtraction

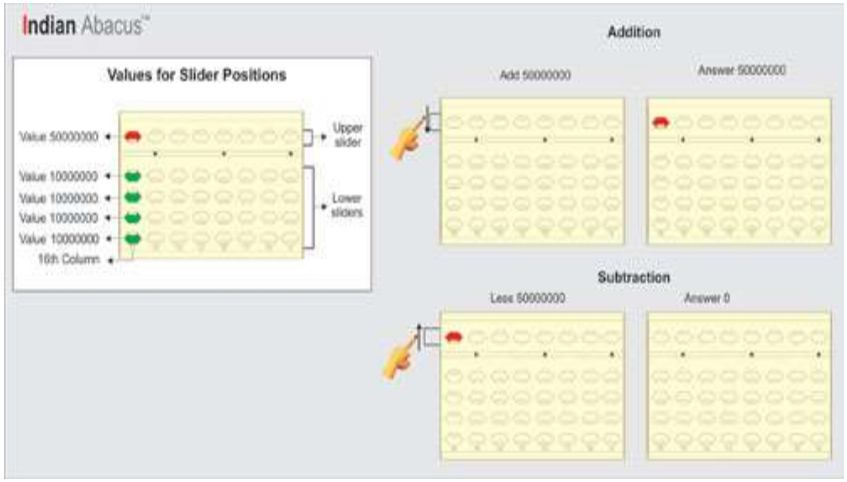
Move 4 lower sliders together away from the bar using left hand index finger in the 16th column as shown in the picture.**40000000**,

Addition

Move upper slider towards the bar using left hand middle finger in the 16th column as shown in the picture.

Subtraction

Move upper slider away from the bar using left hand middle finger in the 16th column as shown in the picture.**50000000**,



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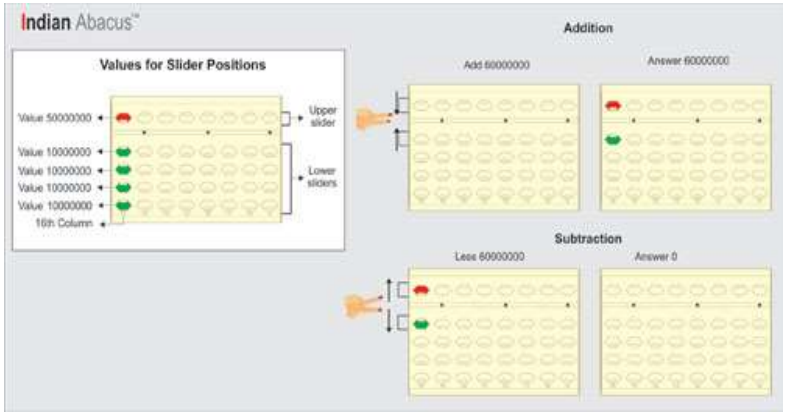


Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 16th column as shown in the picture.

Subtraction

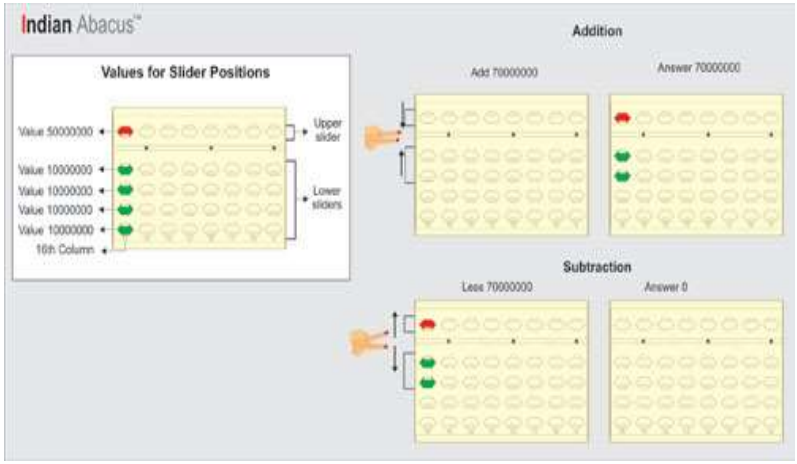
Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 16th column as shown in the picture.**60000000**,

Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 16th column as shown in the picture.

Subtraction

Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 16th column as shown in the picture.**70000000**,



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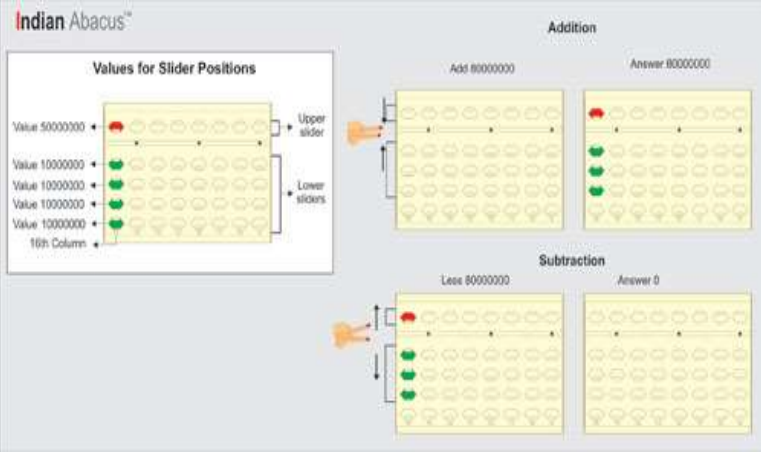


Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 16th column as shown in the picture.

Subtraction

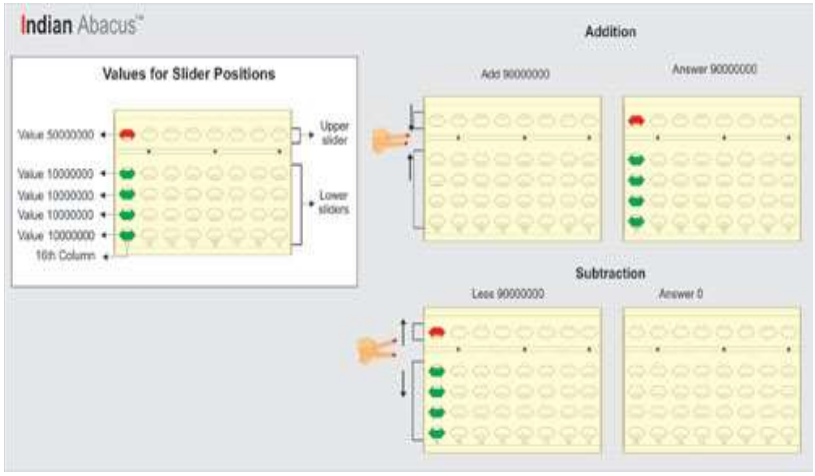
Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 16th column as shown in the picture.**80000000**,

Addition

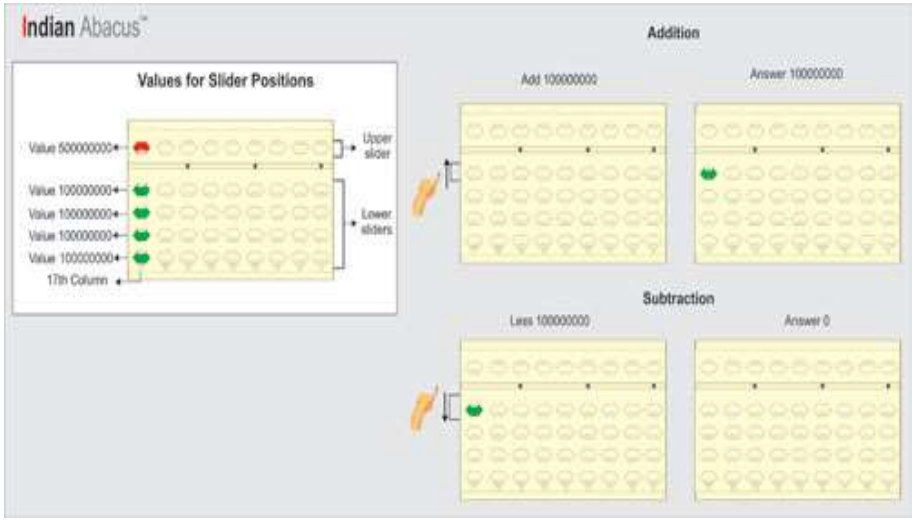
Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 16th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 16th column as shown in the picture.**90000000**.
When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.



9. The **17th column** on the left side gets increased with ten times more value. The upper slider represents the value as Fifty Crore (500000000) of this column and the lower slider represents the value as Ten Crore (100000000) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example



Addition

Move a lower slider towards the bar using left hand index finger in the 17th column as shown in the picture.

Subtraction

Move a lower slider away from the bar using left hand index finger in the 17th column as shown in the picture.**100000000**,

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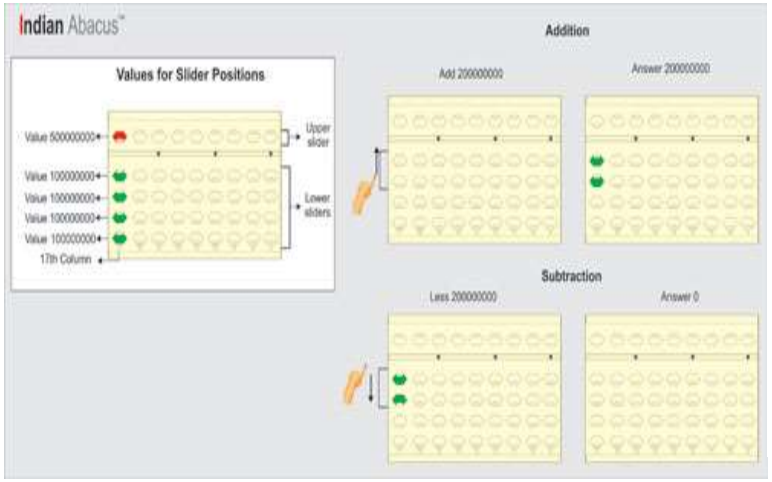


Addition

Move 2 lower sliders together towards the bar using left hand index finger in the 17th column as shown in the picture.

Subtraction

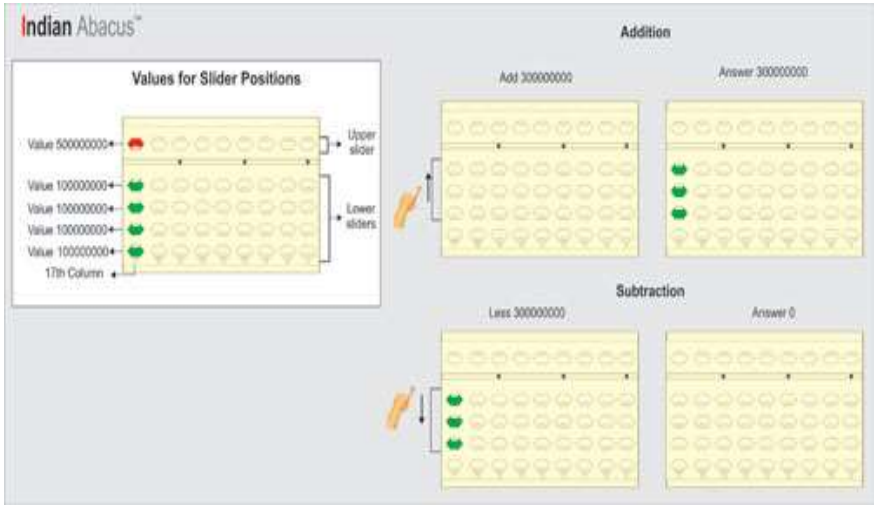
Move 2 lower sliders together away from the bar using left hand index finger in the 17th column as shown in the picture.**200000000**,

Addition

Move 3 lower sliders together towards the bar using left hand index finger in the 17th column as shown in the picture.

Subtraction

Move 3 lower sliders together away from the bar using left hand index finger in the 17th column as shown in the picture.**300000000**,



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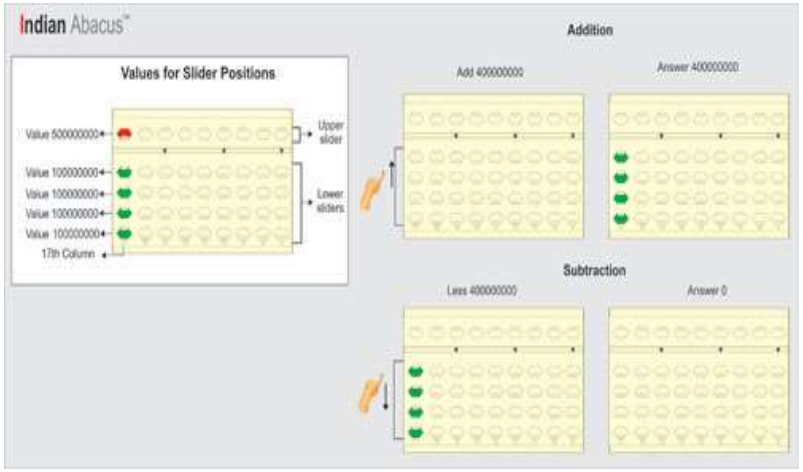


Addition

Move 4 lower sliders together towards the bar using left hand index finger in the 17th column as shown in the picture.

Subtraction

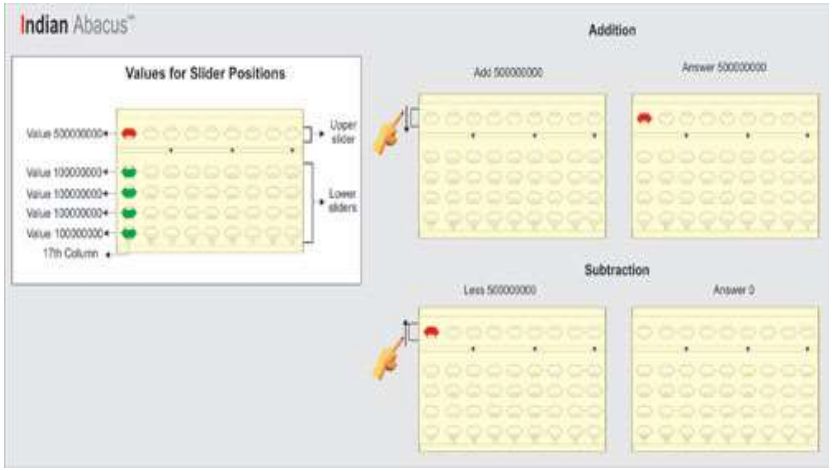
Move 4 lower sliders together away from the bar using left hand index finger in the 17th column as shown in the picture.**400000000**,

Addition

Move upper slider towards the bar using left hand middle finger in the 17th column as shown in the picture.

Subtraction

Move upper slider away from the bar using left hand middle finger in the 17th column as shown in the picture.**500000000**,



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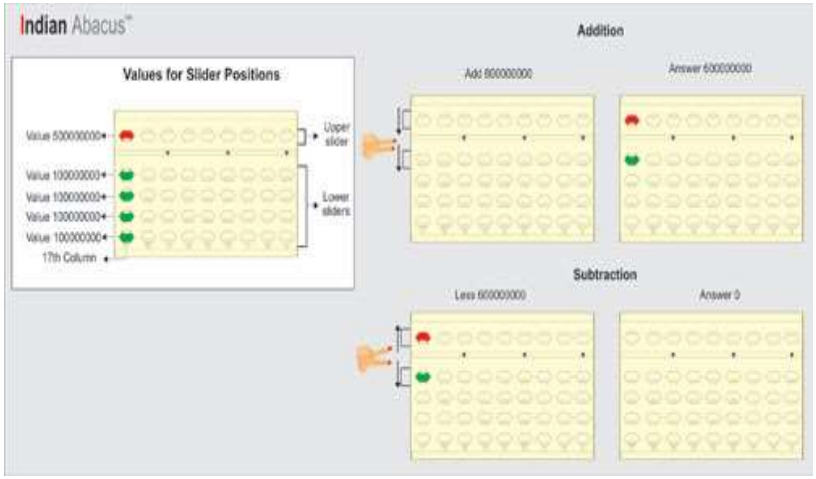


Addition

Move upper and a lower slider together towards the bar using left hand middle and index fingers together in the 17th column as shown in the picture.

Subtraction

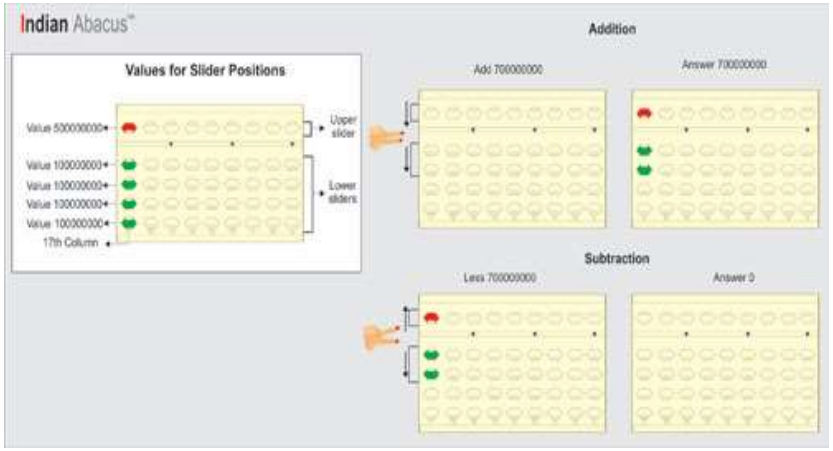
Move upper and a lower slider together away from the bar using left hand middle and index fingers together in the 17th column as shown in the picture.**600000000**,

Addition

Move upper and 2 lower sliders together towards the bar using left hand middle and index fingers together in the 17th column as shown in the picture.

Subtraction

Move upper and 2 lower sliders together away from the bar using left hand middle and index fingers together in the 17th column as shown in the picture.**700000000**,



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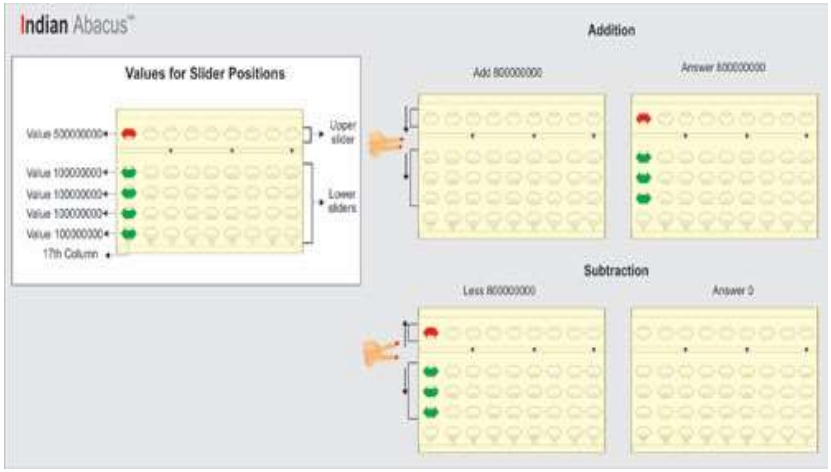


Addition

Move upper and 3 lower sliders together towards the bar using left hand middle and index fingers together in the 17th column as shown in the picture.

Subtraction

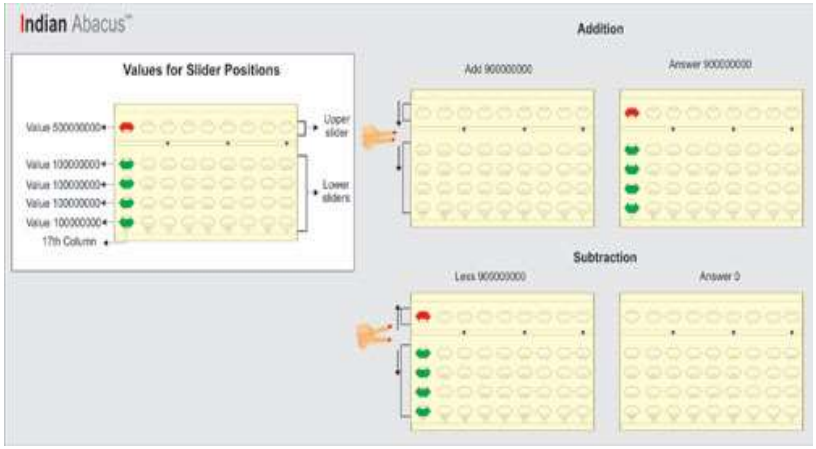
Move upper and 3 lower sliders together away from the bar using left hand middle and index fingers together in the 17th column as shown in the picture.**800000000**,

Addition

Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 17th column as shown in the picture.

Subtraction

Move upper and 4 lower sliders together away from the bar using left hand middle and index fingers together in the 17th column as shown in the picture.**900000000**.
When the slider/s moves away from the bar it loses its value, it is for Minus (-) operation.



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Chairman & Managing Director, CEO.,
Inventor - Indian Abacus