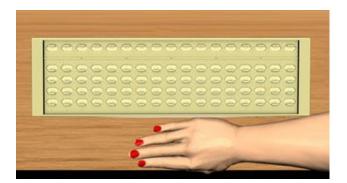
Indian Abacus

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.

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



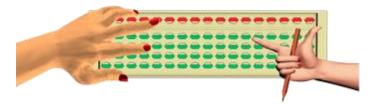
2. He / she should sit upright and be seated front half of the chair space.



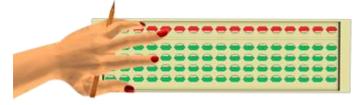
3. Abacus tool should be kept perpendicular to the nose of the student when the student looks at it from the top.



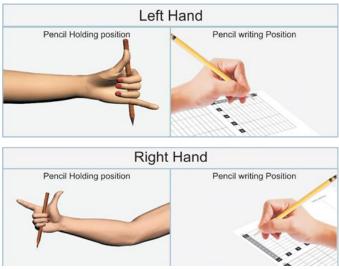
4. If you are a Abacus and Pencil holding for Right Hand writer hold the pencil in your right hand and hold abacus in the left hand when you do computation using Abacus.



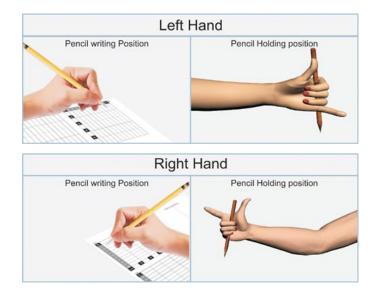
5. If you are a Abacus and Pencil holding for Left Hand writer you must hold Abacus and pencil both in left hand when you do computation using abacus.



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.

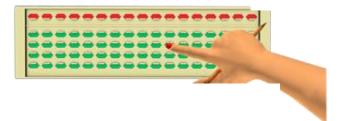


Indian Abacus

- 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 (do not hold abacus in your hand but always hold pencil in your hand) mental sums without using abacus do not hold abacus in your hand but always hold pencil in your hand.



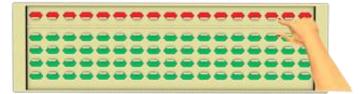
10. While doing the abacus and book practice, student should always hold pencil in the hand.



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.

333	 		3 -			
333	 	22	3	and the second	22	22
222	 					

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

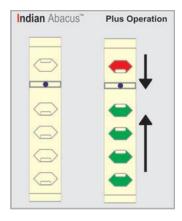


Indian Abacus

Operation of Abacus for Addition:

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

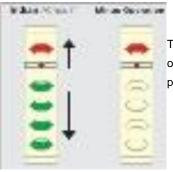
Plus (+) Operation



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.

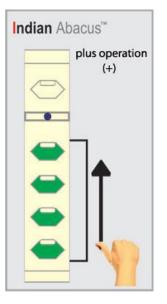
3. There are totally five unit pointers facing columns, but the student should use only the middle unit pointer (in the 9th column) -

	-					
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	00	00	000			
99		99				
ee						

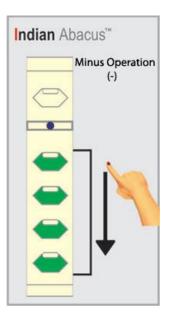
Home column - to start doing the computation.



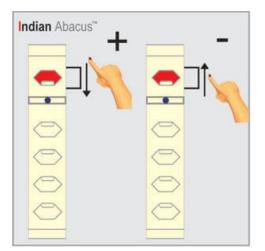
4. Use right hand thumb to move lower slider in the 9th column towards the bar for plus (+) operation.



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

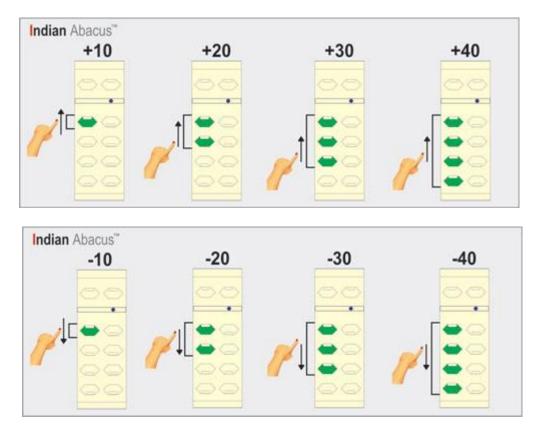


6. Use only index finger to move the upper slider in the 9th column, towards and away from the bar for both plus and minus (+ & -) operations.

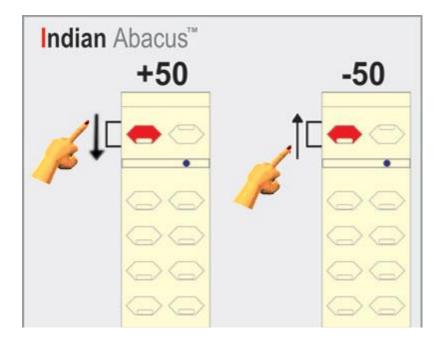


Indian Abacus

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



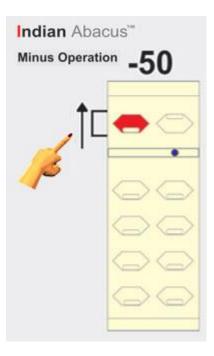
8. Use left hand middle finger to move upper slider in the 10th column again for both minus and plus (+/-) operations. i.e. +50 & -50



Indian Abacus

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

 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

ndian Abacus [≈]	Addition		Subtraction	
Values for Slider Positions	Add 1	Answer 1	Less 1	Answer 0
Upper + C + Value 5	60	00	00	00
.ower				100
liders Value 1				

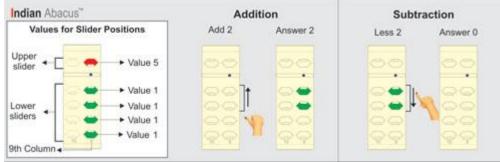
Addition

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,

Indian Abacus



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,

ndian Abacus [™]	Add	Addition		action
Values for Slider Positions	Add 3	Answer 3	Less 3	Answer 0
Upper + C	60	00	00	00
Value 1	00			00
Lower Value 1	00			00
sliders Value 1	00			100
Value 1	<u></u>	99	99	QQ
ith Column 4		and the statement of th		

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,

ndian Abacu	ian Abacus"		Addition		action
Values fo	or Slider Positions	Add 4	Answer 4	Less 4	Answer 0
Upper slider + C	Value 5	00	00	00	00
. Г	Value 1	00]	~	ee]	00
Lower sliders	Value 1				
9th Column -	Value 1	Q Q	<u>~</u> €	~	କନ୍

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,

Indian Abacus

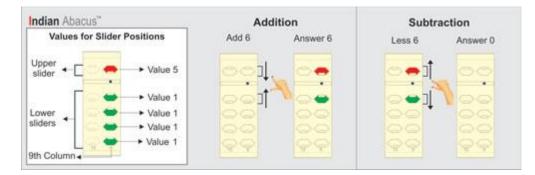
ndian Abacus"	Ad	dition	Subtraction	
Values for Slider Positions	Add 5	Answer 5	Less 5	Answer 0
Upper			্ৰা	00
∏ ⊂ 👄 → Valu		00	00	100
Lower Valu	e1 📿 📿	00		
sliders 🍟 📿 👄 🛶 Valu	le1 😡 📿	00		
Valu	e1 📿 📿	QQ	Q Q	
9th Column 4				

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,

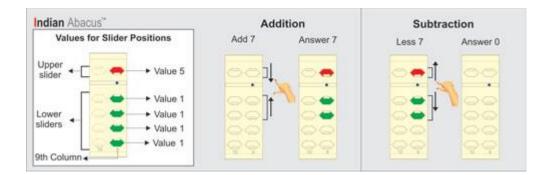


Addition

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.

Indian Abacus

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**,

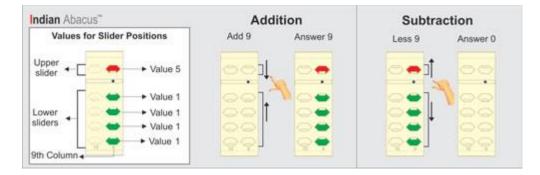
Indian Abacus*	idian Abacus"		Addition		action
Values for Slie	der Positions	Add 8	Answer 8	Less 8	Answer 0
Upper	• Value 5	001		্ৰন্য	00
	→ Value 1	001	10●	,	100
Lower +	Value 1	00			
9th Column	► Value 1	ନ୍ନକ	ବ୍	ଢ଼ଢ଼	ବବ

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.

 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

Indian Abacus

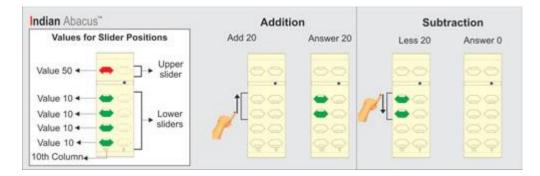
Add 10	Answer 10	Less 10	Answer 0
			Allsweiru
00	00	00	00
			0000
	1000		

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,



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,

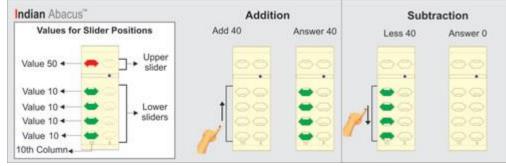
dian Abacus"	Addi	tion	Subtraction	
Values for Slider Positions	Add 30	Answer 30	Less 30	Answer 0
/alue 50 • • • Upper	00	00	00	00
/alue 10 •	t[88		∕ [1 8	00
/alue 10 • • sliders				00 99

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



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,

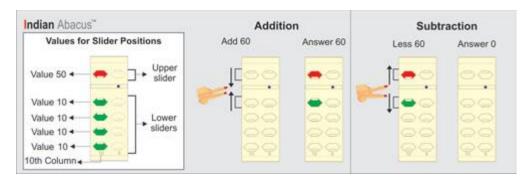
ndian Abacus"	Additi	on	Subtraction	
Values for Slider Positions	Add 50	Answer 50	Less 50	Answer 0
Value 50 • • Upper Slider	1000	••		00
Value 10 • • C Lower		00	00	00
Value 10 • • sliders Value 10 • • 10 • 10 • 10 • • • • • • • • • •	00 99	କକ କକ	କକ ବୁକୁ	

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,



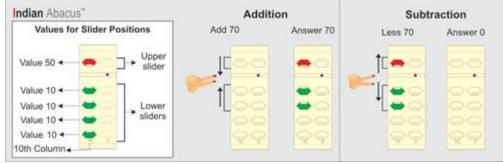
Addition

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,

Indian Abacus



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**,

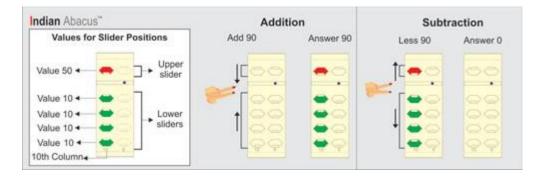
ndian Abacus"	Addition		Subtr	raction
Values for Slider Positions	Add 80	Answer 80	Less 80	Answer 0
Value 50 • Upper Silder	, L <mark>oo</mark>	••		00
Value 10 • 🗕 👄 🔤 🗌	F [00	•o !		00
Value 10 - Lower sliders			+	
Value 10 - Soders	100			
Value 10	QQ	କୁକୁ	A	$\varphi \varphi$
0th Columna				

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.

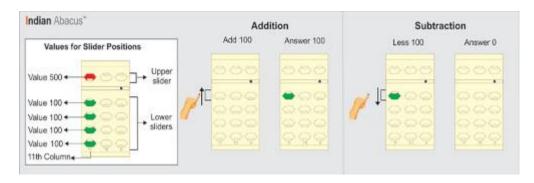
Indian Abacus

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.

3. 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

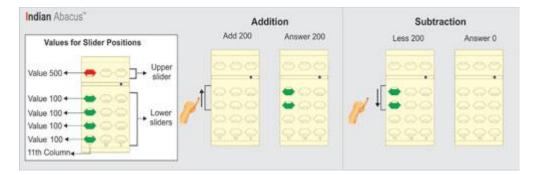


Addition

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,



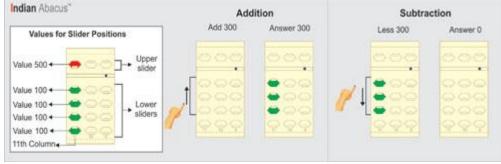
Addition

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,

Indian Abacus



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**,

ndian Abacus"	Add	ition	Subtraction	
Values for Slider Positions	Add 400	Answer 400	Less 400	Answer 0
Value 500 + + O O + Sider	000	000	000	000
Value 100 + + OO	1000	* 288		000
Value 100 + + Lower Sliders	000		// 288	
Value 100 • • • • • • • • • • • • • • • • • •	- A MARY	TOX TO	A A A A	-X-X-X-

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**,

Subtrac	ction
Less 500	Answer 0
1000	000
	କ କ କ କ କ କ କ କ କ

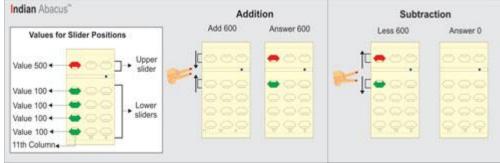
Addition

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**,

Indian Abacus



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,

acus"	Addi	ition	Subtra	ction
s for Slider Positions	Add 700	Answer 700	Less 700	Answer 0
	1000	•00	t=	000
•••••	10000			000
Lower sliders			କ୍ କୁକୁ କୁ କୁକୁ	
	MONST	T.T.T.T.		

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**,

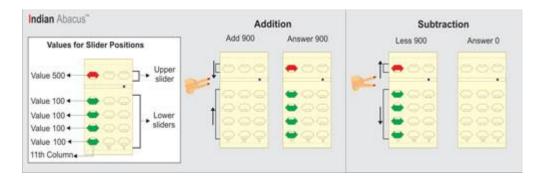
Indian Abacus"	Add	ition	Subtra	ction
Values for Slider Positions	Add 800	Answer 800	Less 800	Answer 0
Value 500 +	Looo.	• • • •	00•J	000
Value 100	1000			000
Value 100 + Cover Value 100 + Silders Value 100 + Cover Value 100 + Cover	କ କ କ ବ ବ ବ	• • • • • • • •		କଳକ ବୁବୁବ୍

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

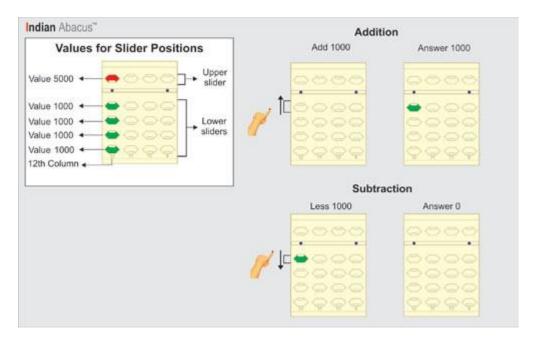
Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 11th column as shown in the picture.

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



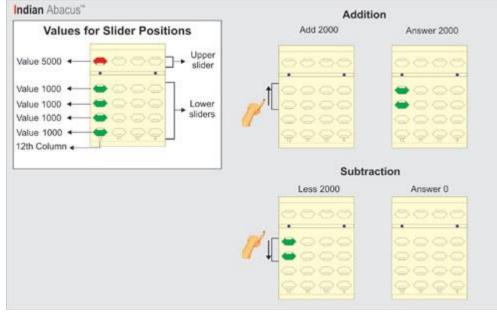
Addition

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,

Indian Abacus

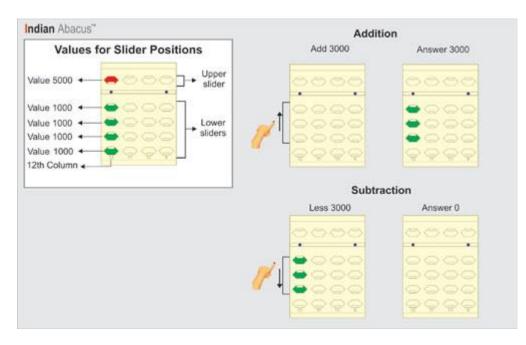


Addition

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**,



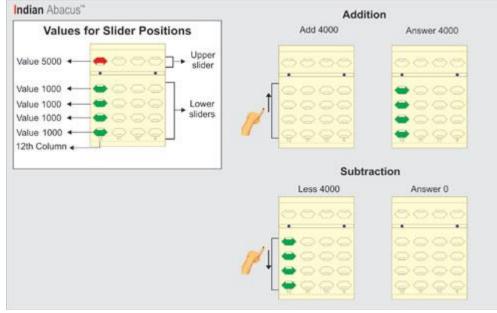
Addition

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**,

Indian Abacus

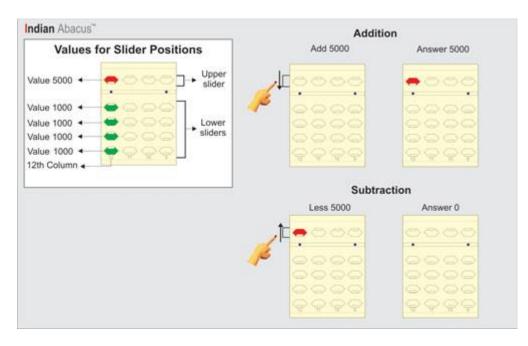


Addition

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**,



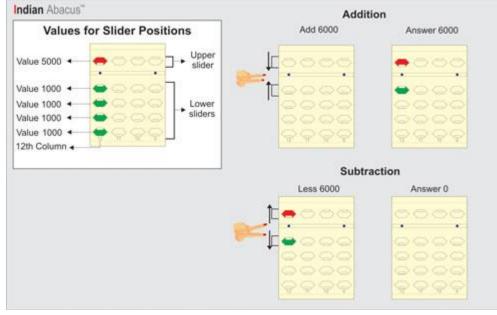
Addition

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,

Indian Abacus

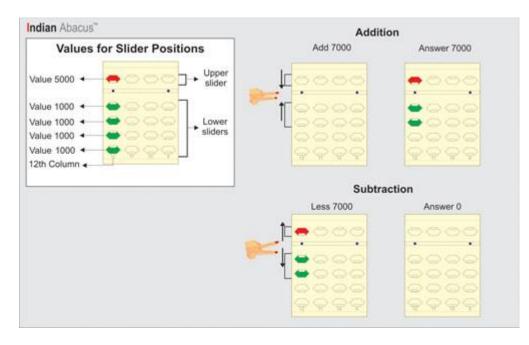


Addition

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,



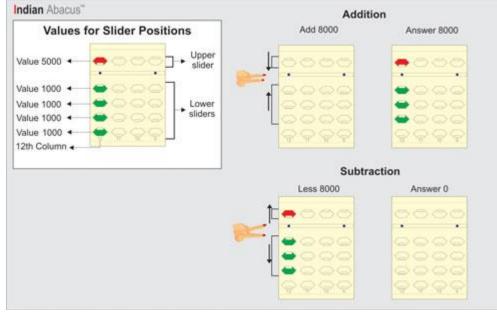
Addition

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**,

Indian Abacus

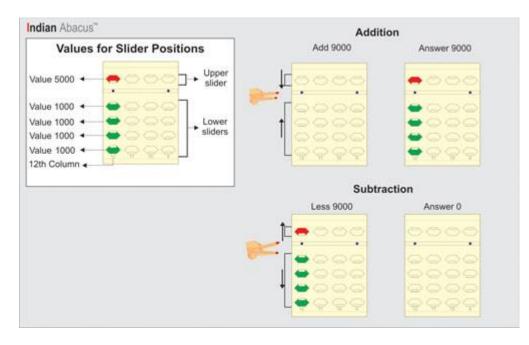


Addition

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.

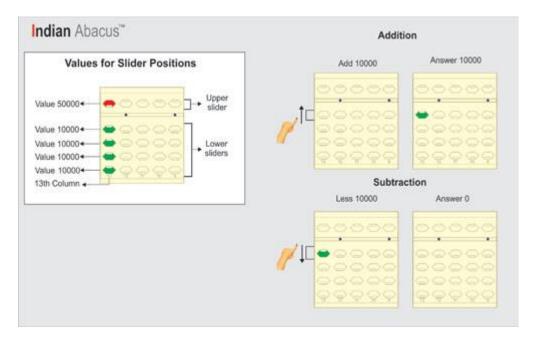
Subtraction

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.

Indian Abacus

5. The **13th column** on the left side gets increased with ten times more value. The upper slider represents the value as Fifty Thousand (50000) of this column and the lower slider represents the value as Ten Thousand (10000) each. The slider moved towards the bar on this column gets increased by the value as ten times more, example

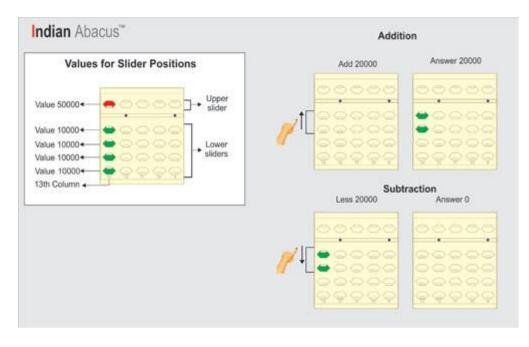


Addition

Move a lower slider towards the bar using left hand index finger in the 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**,

Indian Abacus

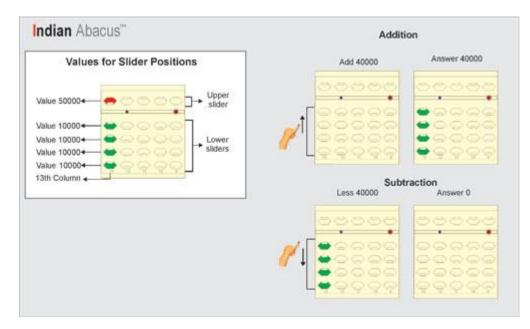


Addition

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**,



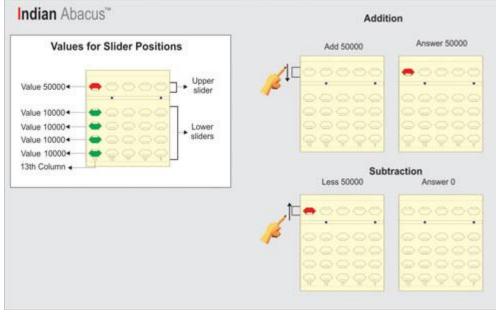
Addition

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**,

Indian Abacus

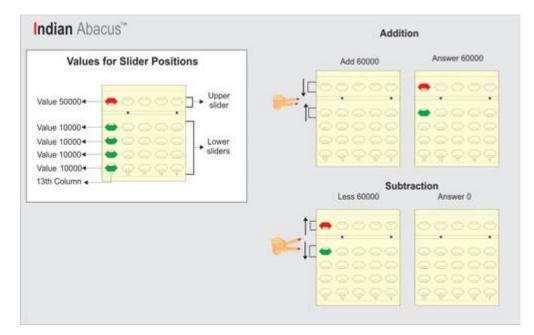


Addition

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,



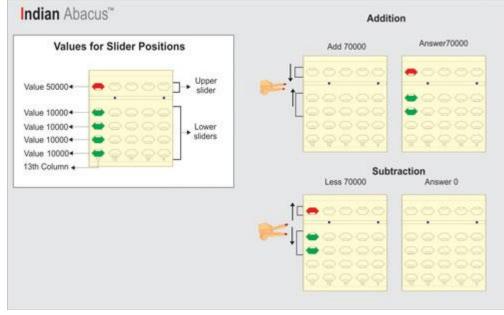
Addition

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,

Indian Abacus

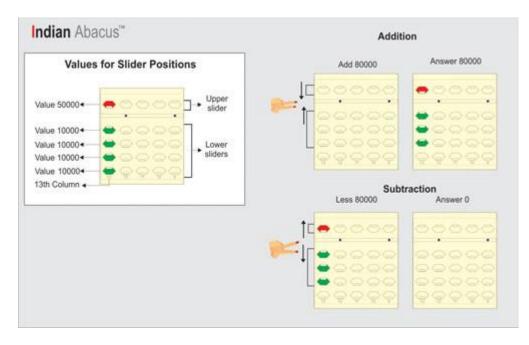


Addition

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**,



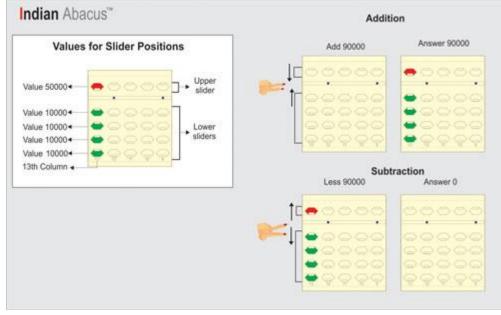
Addition

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**,

Indian Abacus



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.

Indian Abacus

Subtraction

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



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**,

ndian Abacus"	Add	lition
Values for Slider Positions	Add 300000	Answer 300000
Value 500000 +		
14th Column	Subtr	action Answer 0
	000000	00000
	//I =33383	000000
	000000	000000

Addition

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

Subtraction

Indian Abacus

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

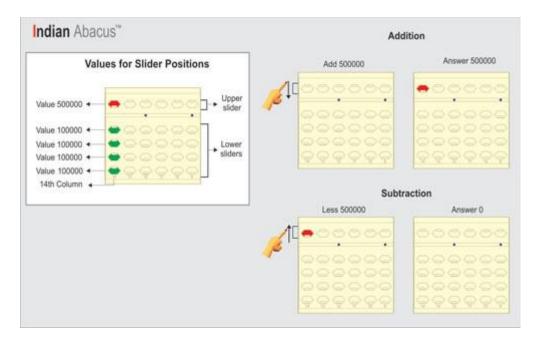
ndian Abacus"	Addition	
Values for Slider Positions	Add 400000 Answer	
	000000	000000
		•00000 •00000
Value 100000 + • • • • • • • • • • • • • • • •		•
Value 100000 + + + + + + + + + + + + + + + +	Subt	traction
	Less 400000	Answer 0
	000000	000000
	000000	000000
	000000	000000

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**,



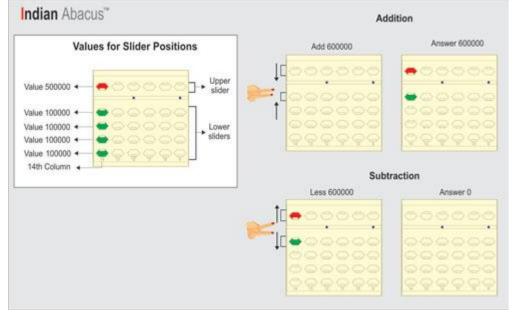
Addition

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,

Indian Abacus

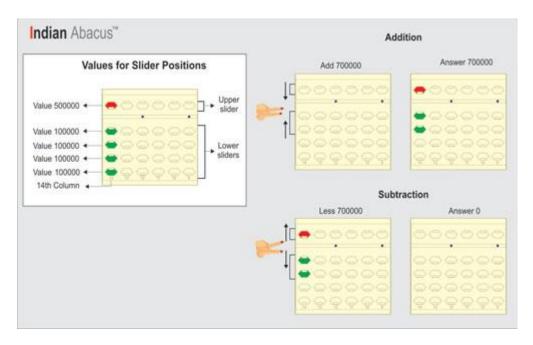


Addition

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**,



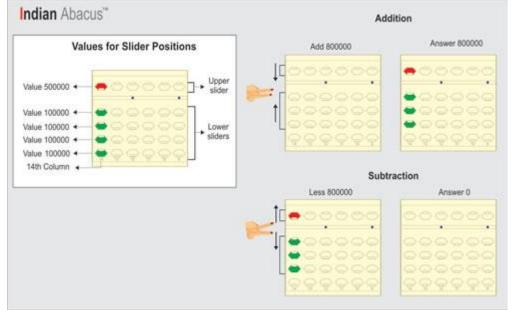
Addition

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**,

Indian Abacus

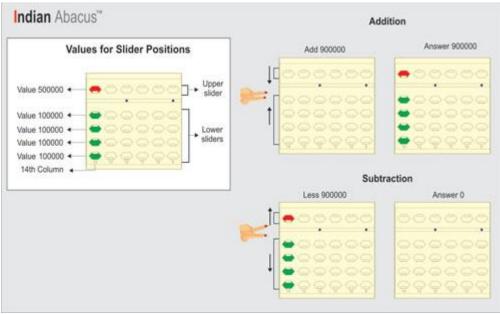


Addition

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.

Indian Abacus

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

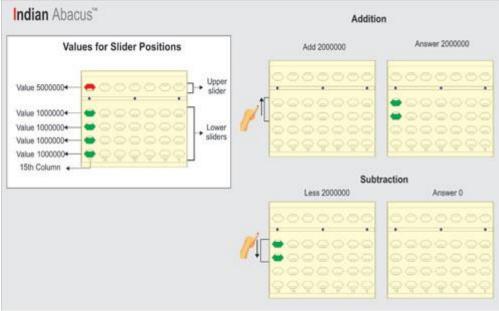


Addition

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,



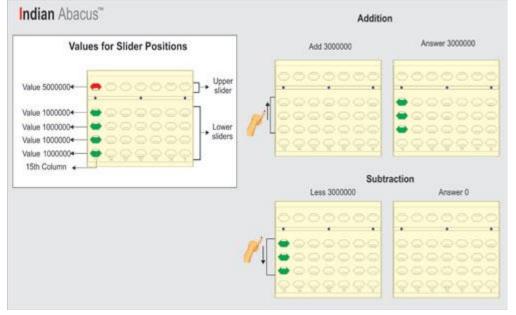
Addition

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**,

Indian Abacus



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. **30000000**,



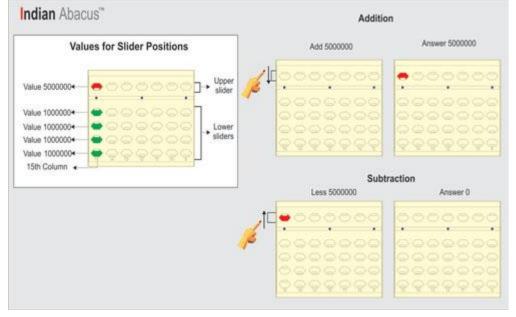
Addition

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. **40000000**,

Indian Abacus



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,



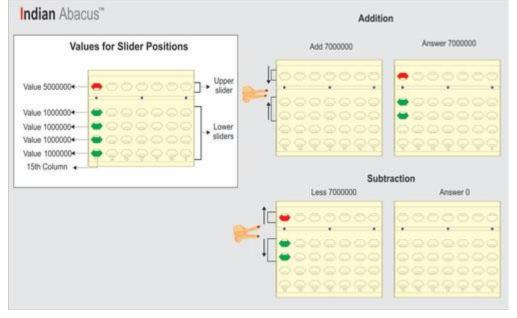
Addition

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**,

Indian Abacus

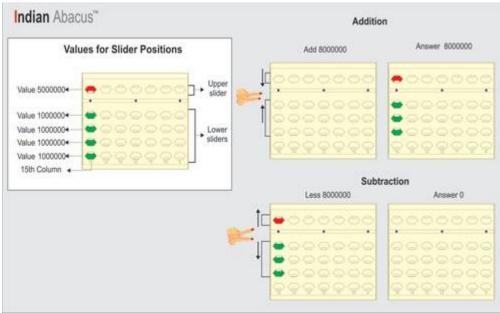


Addition

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**,



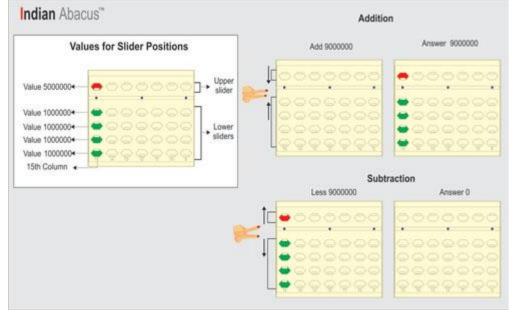
Addition

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,

Indian Abacus



Addition

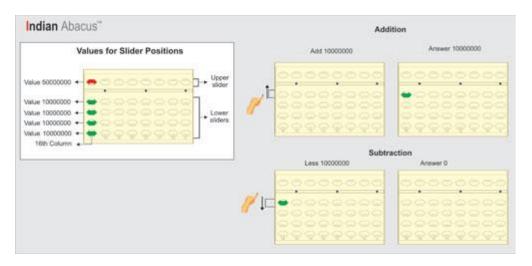
Move upper and 4 lower sliders together towards the bar using left hand middle and index fingers together in the 15th column as shown in the picture.

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,

Indian Abacus

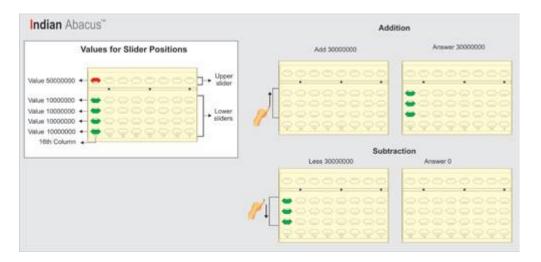
Addition	
Add 20000000	Answer 20000000
Subtraction Less 20000000 Answer 0	
00000000	00000000
1[=2222222	000000000000000000000000000000000000000
	Add 2000000

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**,

Indian Abacus

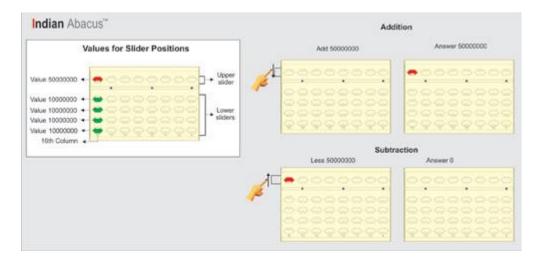
Indian Abacus"	Addition	
Values for Slider Positions	Add 40000000	Answer 40000000
Value 5000000 + + + Upser Value 1000000 + + + + Upser Value 1000000 + + + +		
16th Column	Subtraction Less 4000000 Answer 0	
	00000000	00000000
1	/	

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. **400000000**,



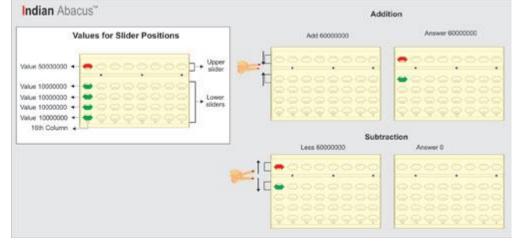
Addition

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,

Indian Abacus

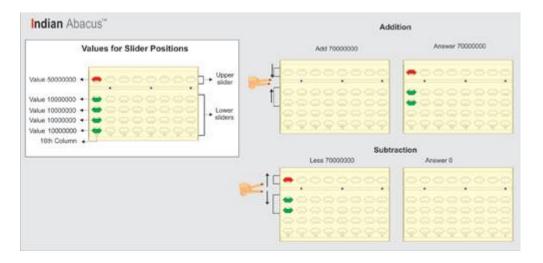


Addition

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**,

Indian Abacus

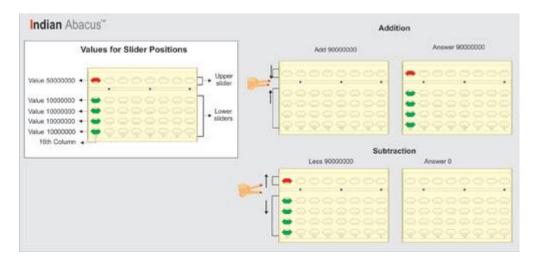
Indian Abacus"	Addition	
Values for Slider Positions	Add 80000000	Answer 80000000
Value 5000000 + + Upper Value 1000000 + + + + + + + + + + + + + + + +		
10th Column +	Subtraction Less 80000000 Answer 0	
	10-0000000	00000000
		000000000000000000000000000000000000000
	<u>ବବବବବବ</u> ବ	ଵକବବବବବ

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.

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9. The **17th column** on the left side gets increased with ten times more value. The upper slider represents the value as Fifty Crore (50000000) 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

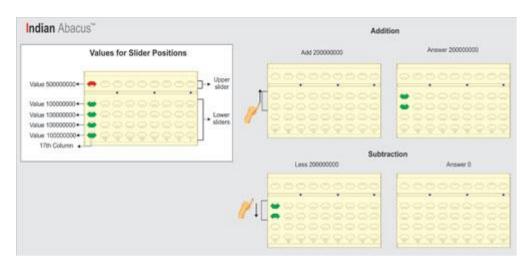
ndian Abacu	IS	Ad	dition
	Values for Slider Positions	Add 100000000	Answer 10000000
/skue 500000000+ Askue 100000000+ /skue 100000000+	• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
Alue 10000000 + • • • • • • • • • • • • • • •	Less 10000000	btraction Ariswer 8	
		<u>∝ ∝ ∝ ∝ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞</u>	000000000

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**,



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**,

Indian Abacus

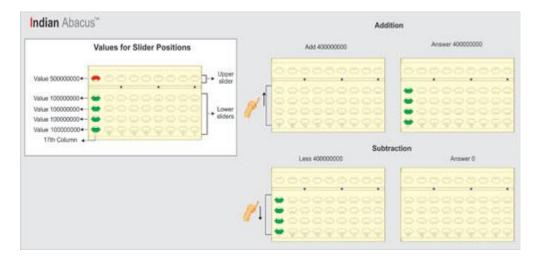
Indian Abacus"	Add	lition
Values for Slider Positions	Add 300000000	Answer 300000000
Value 50000000+		
17th Column +	Subt	raction Answer 6
	<u>00000000</u> √ + 0000000	00000000
		00000000000000000000000000000000000000

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**,



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. **4000000000**,

Indian Abacus

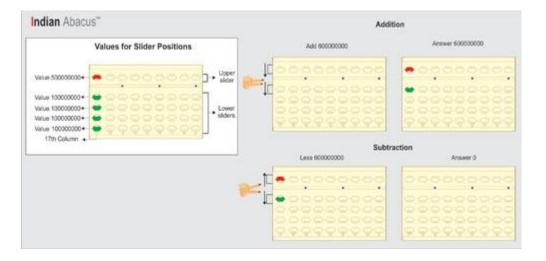
Answer 50000000
Subtraction Answer 8
00000 000000000000000000000000000000000

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**,



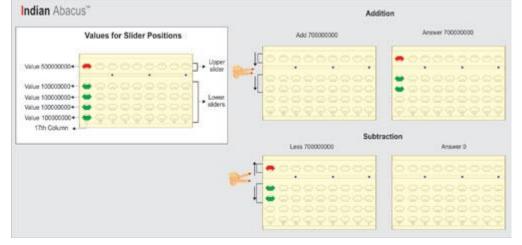
Addition

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**,

Indian Abacus

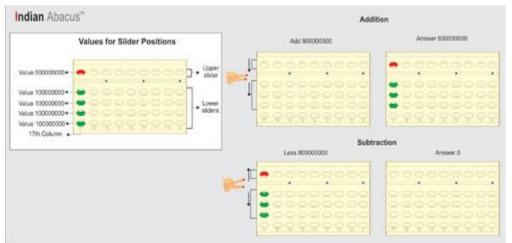


Addition

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**,



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,

Indian Abacus

Indian Abacus	Addi	
Values for Slider Positions	Add 900000000	Answer 90000000
Value 50000000+		
17th Column	Subtr Less 90000000	action Answer 0
	-00000000	000000000
		000000000000000000000000000000000000000

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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