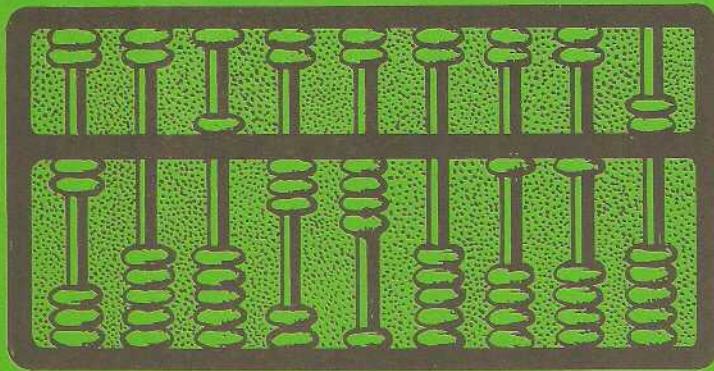


МЕНТАЛЬНАЯ
АРИФМЕТИКА

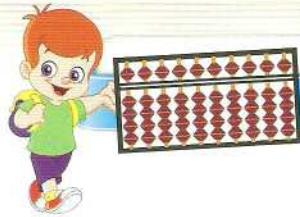


Ментальная
арифметика

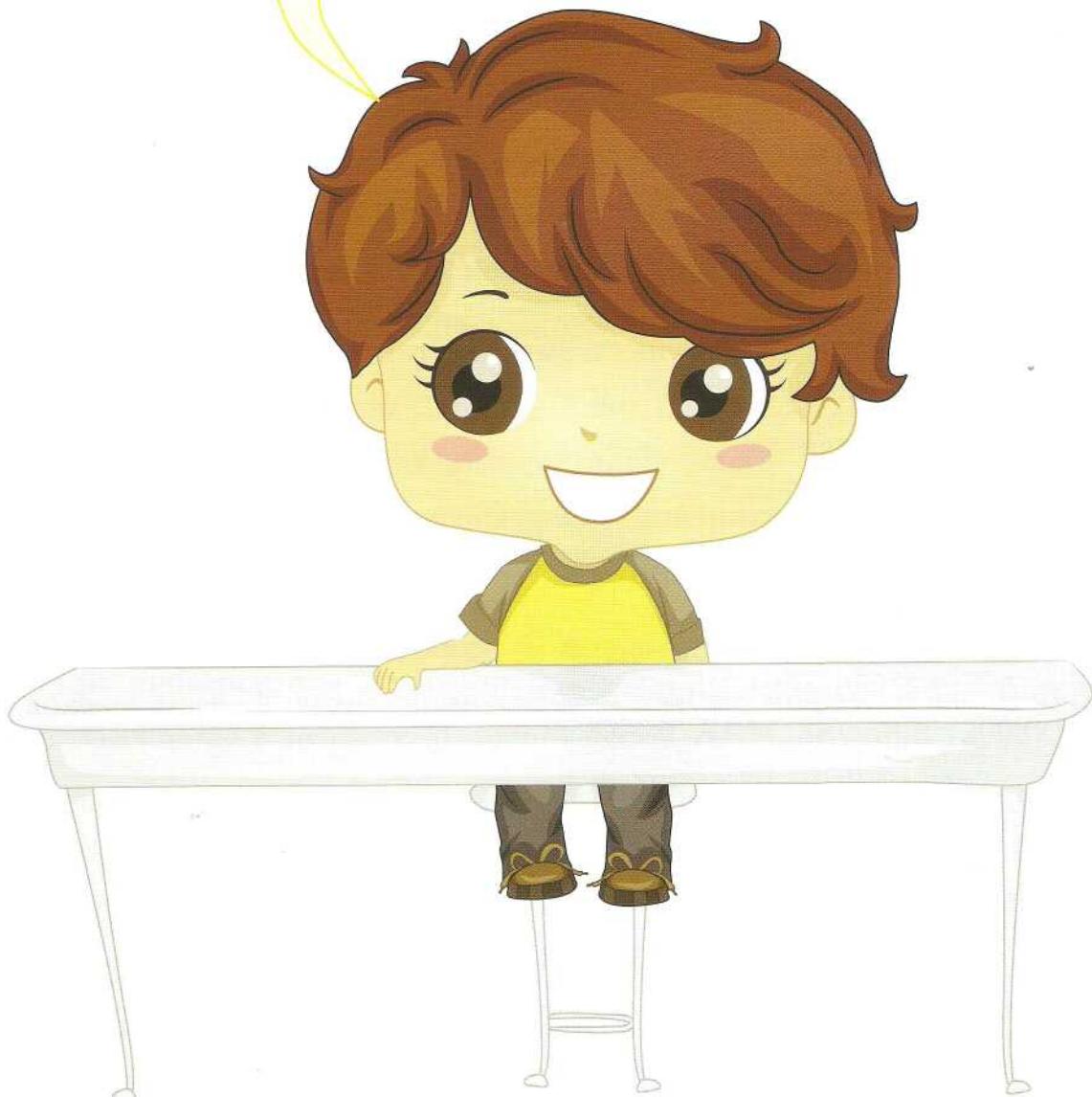
Для детей
4–6 лет

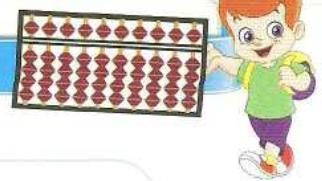


учебник



Здравствуйте, ребята !
Меня зовут Андрей. Мы с Вами вместе
будем изучать ментальную арифметику.



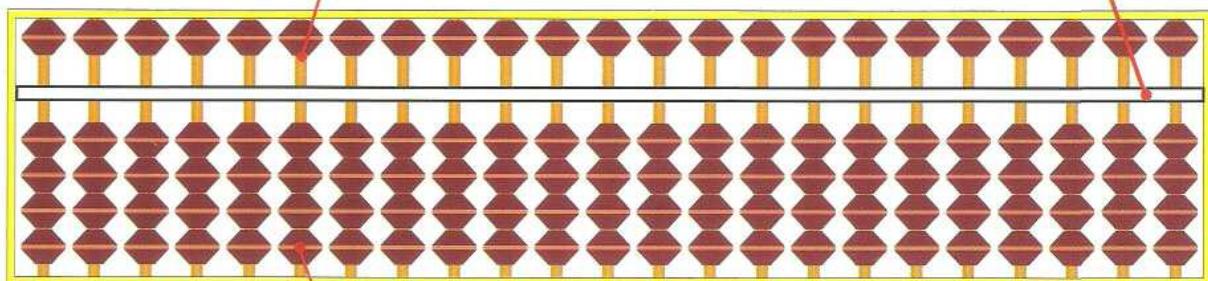


Давайте познакомимся с Абакусом



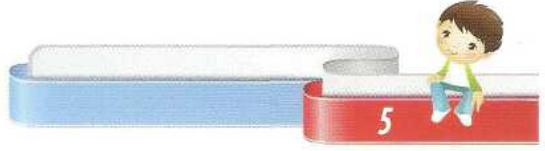
верхний ряд бусинок
(значение: 5)

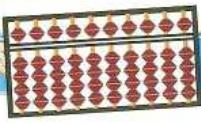
расчетная
линейка



нижний ряд бусинок
(значение: 1)

Теперь научимся считать на Абакусе



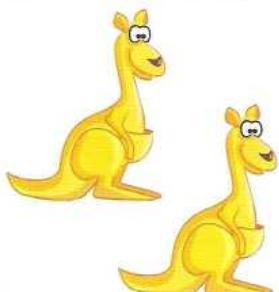


Изучим цифры на Абакусе



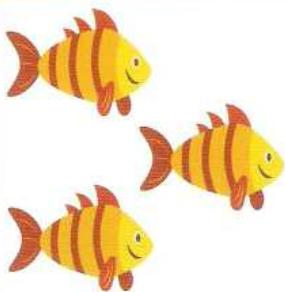
1

1



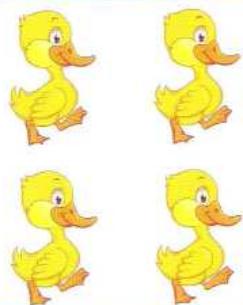
2

2



3

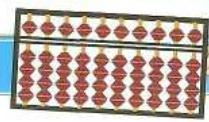
3



4

4





A vertical decorative element featuring a repeating pattern of yellow, green, and purple diamond shapes on a stick.

A large black number '1' with a red stroke indicating the direction of the first stroke. Three dashed outlines of the number '1' are provided for tracing practice.

A vertical decorative element featuring a repeating pattern of yellow, green, and purple diamond shapes on a stick.

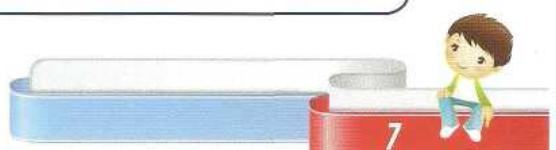
A large black number '2' with two red strokes indicating the direction of the strokes. Three dashed outlines of the number '2' are provided for tracing practice.

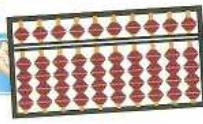
A vertical decorative element featuring a repeating pattern of yellow, green, and purple diamond shapes on a stick.

A large black number '3' with two red strokes indicating the direction of the strokes. Three dashed outlines of the number '3' are provided for tracing practice.

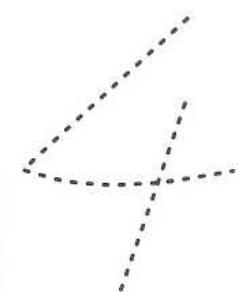
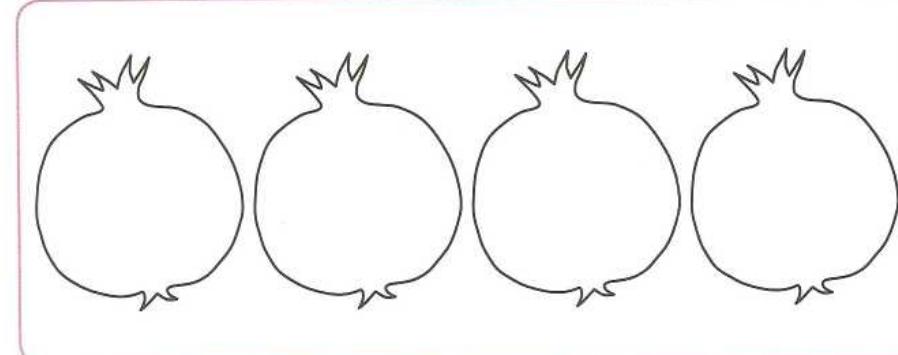
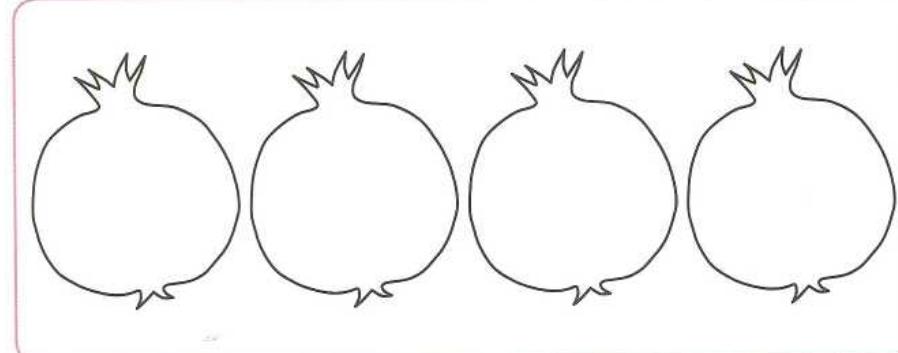
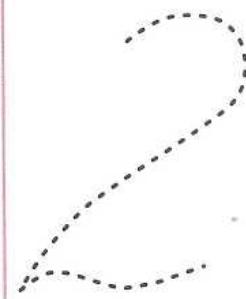
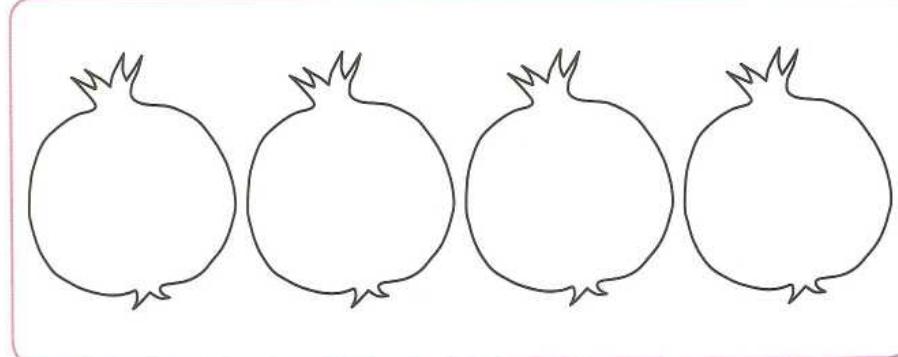
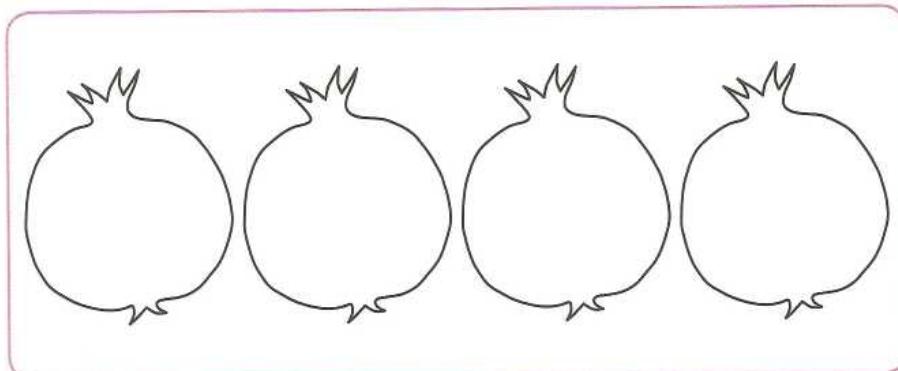
A vertical decorative element featuring a repeating pattern of yellow, green, and purple diamond shapes on a stick.

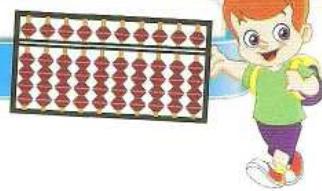
A large black number '4' with two red strokes indicating the direction of the strokes. Three dashed outlines of the number '4' are provided for tracing practice.



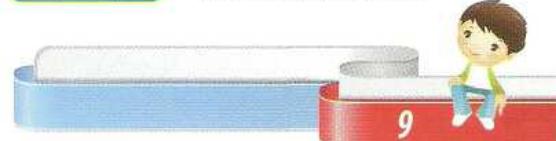
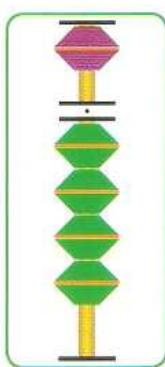
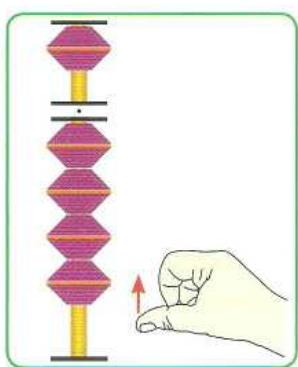
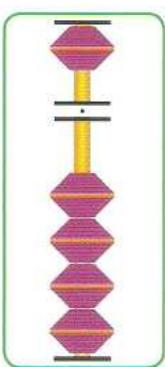
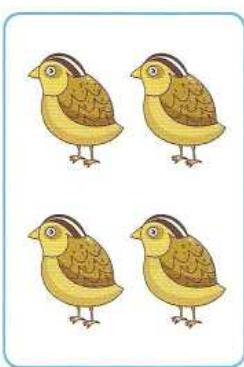
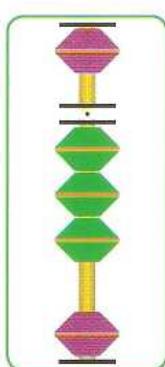
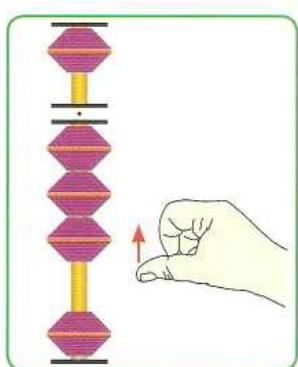
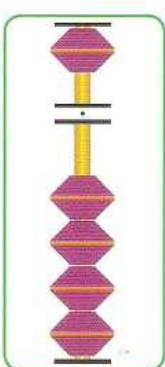
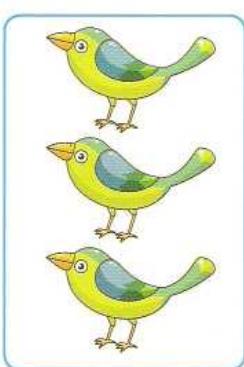
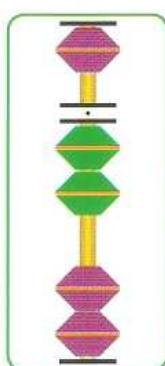
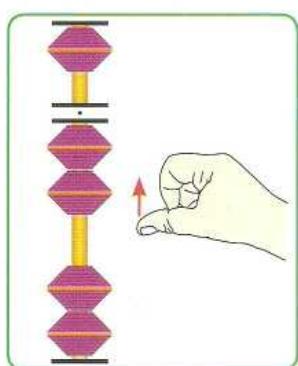
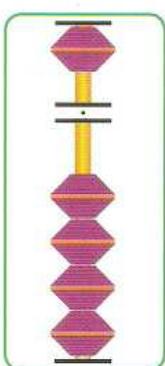
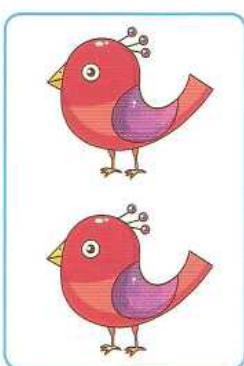
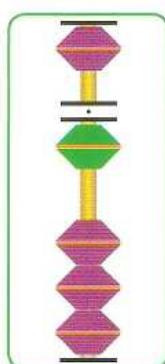
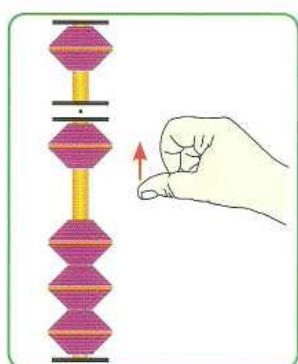
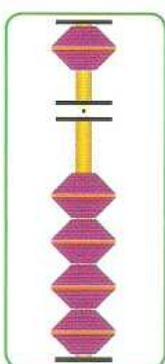


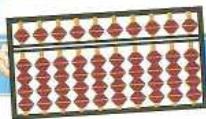
Разукрасим столько гранатов, сколько
указано на Абакусе



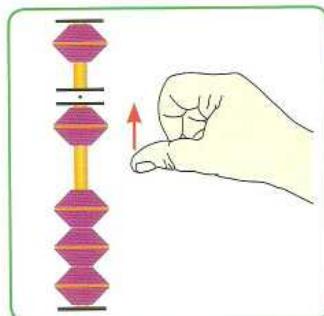


Запишем цифру, указанную на Абакусе

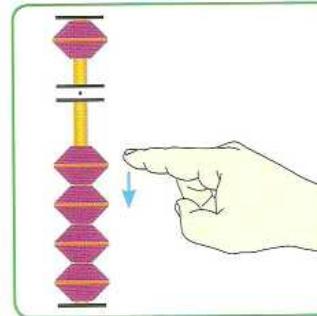




Для нижней части Абакуса
при добавлении используем большой палец,
при вычитании - указательный палец

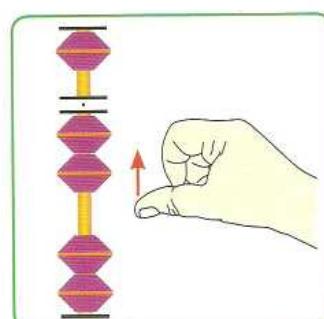


+ 1

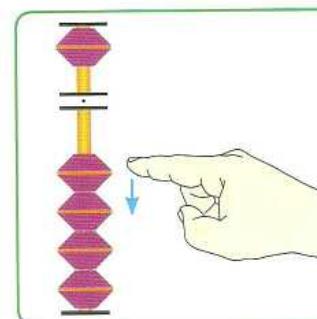


- 1

1

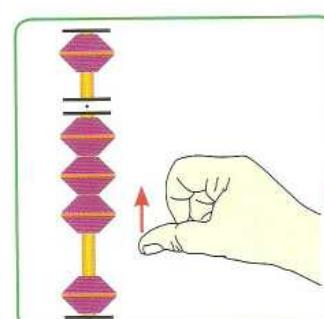


+ 2

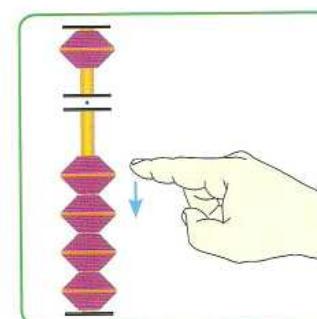


- 2

2

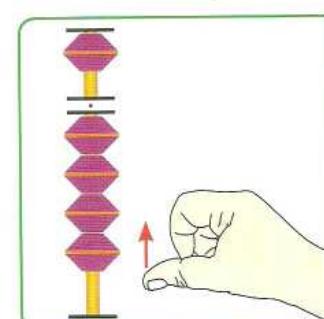


+ 3

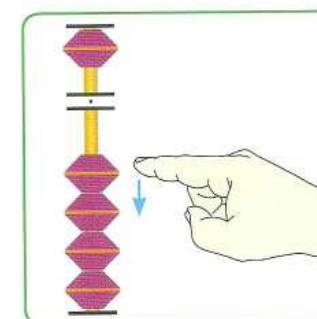


- 3

3



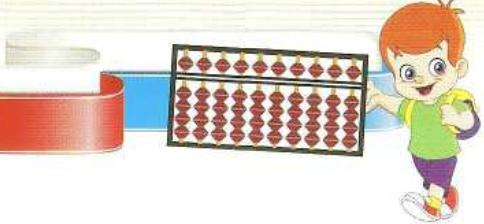
+ 4



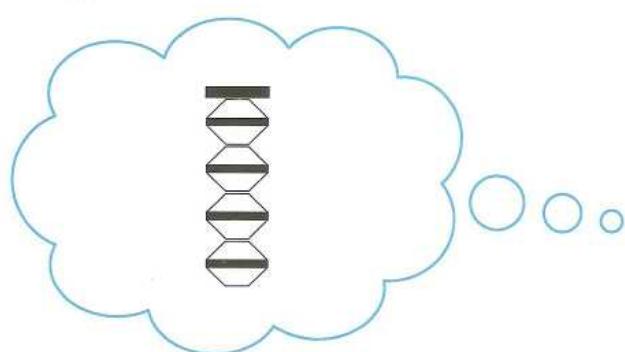
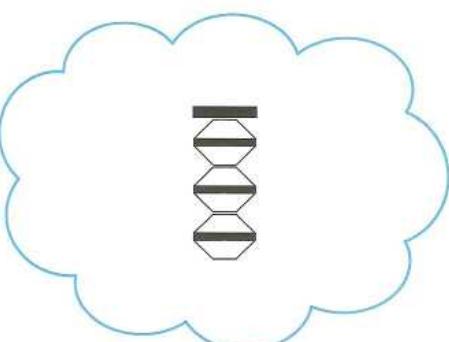
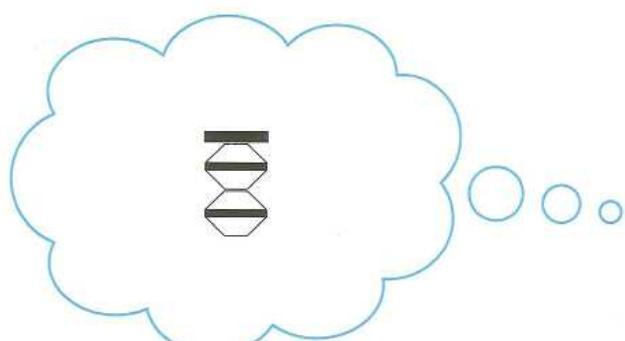
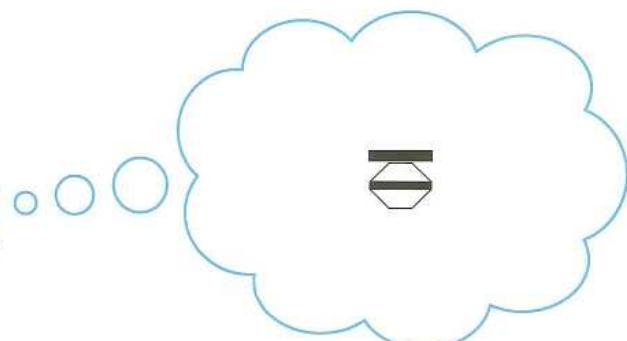
- 4

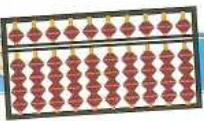
4



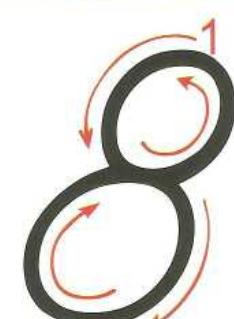
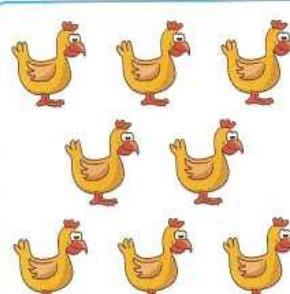
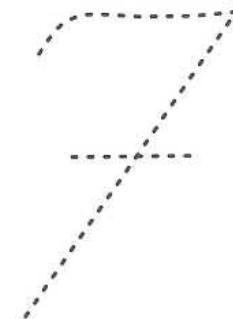
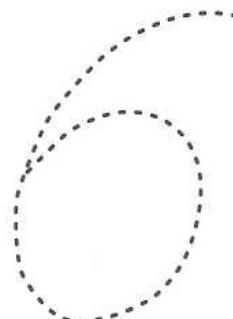
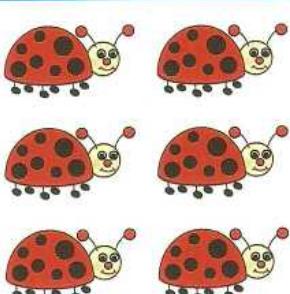
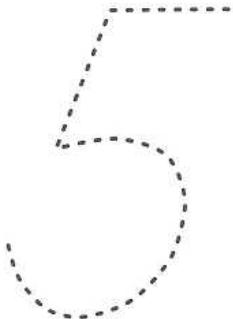
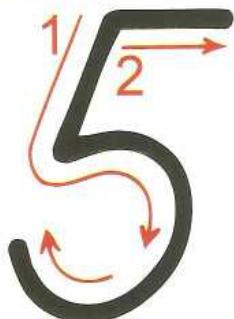
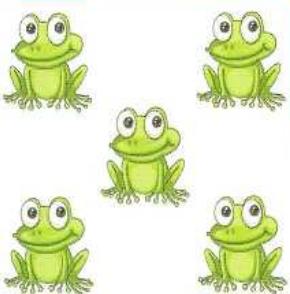


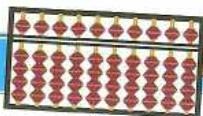
Представим в уме Абакус и разукрасим

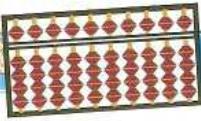




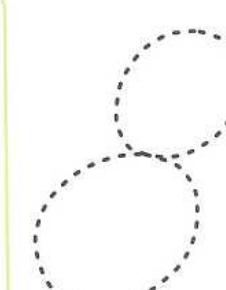
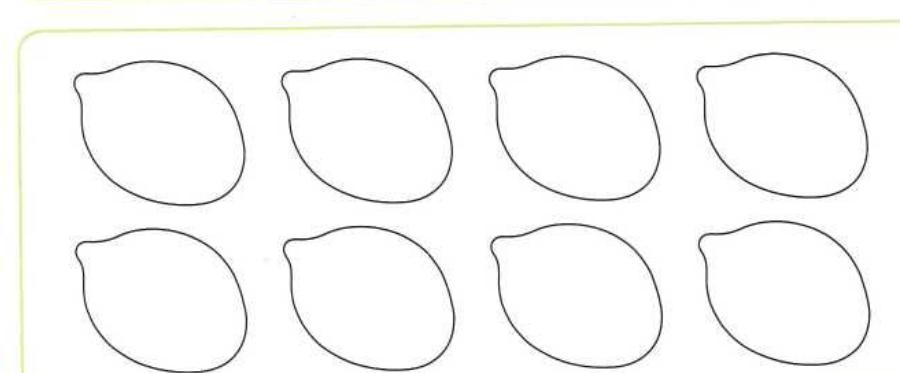
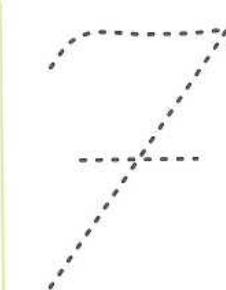
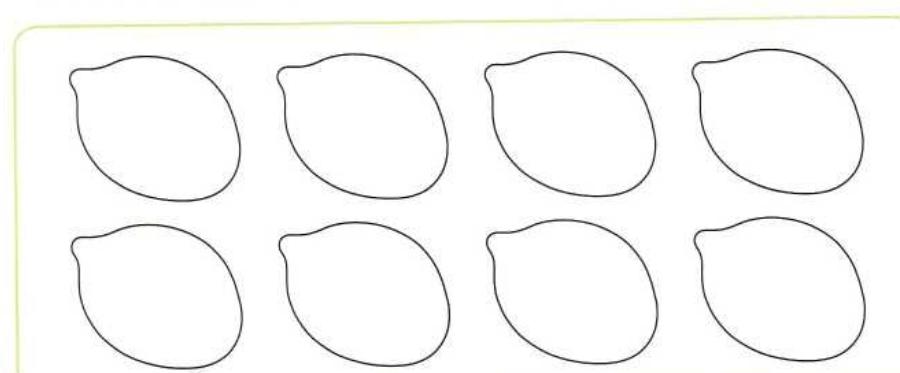
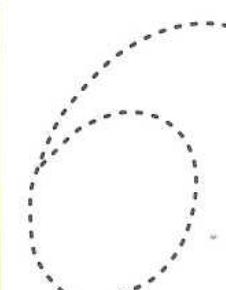
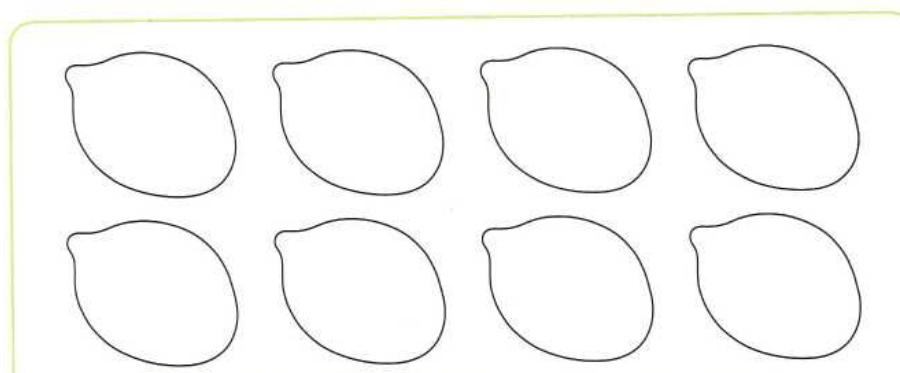
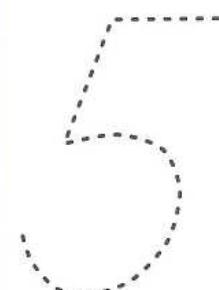
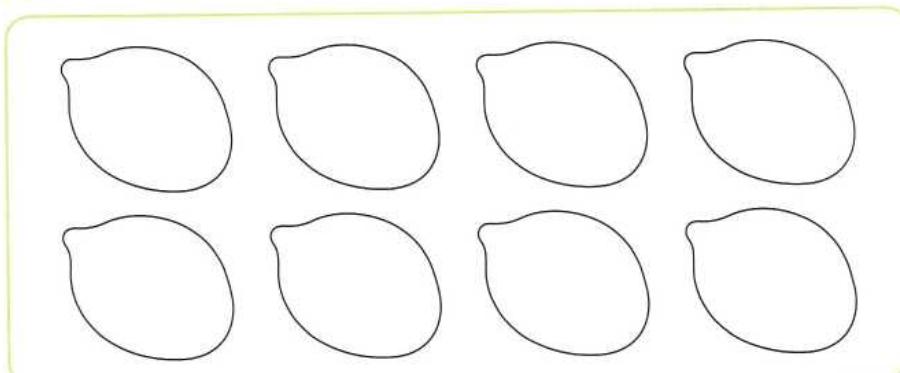
Продолжим изучение цифр на Абакусе

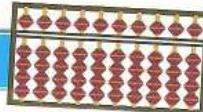




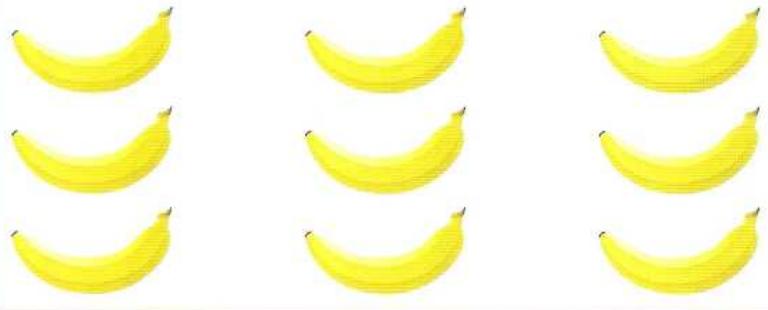


Разукрасим столько лимонов, сколько
указано на Абакусе

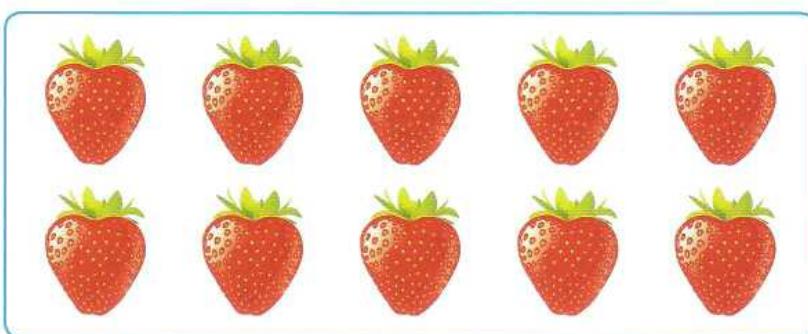




Изучим числа 9 и 10 на Абакусе

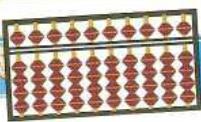


9

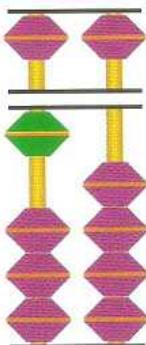
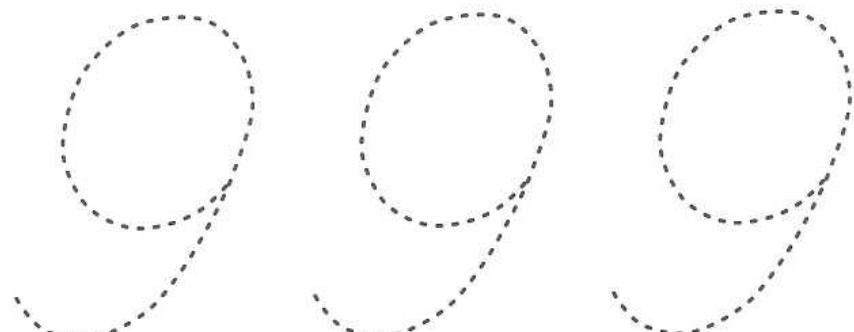


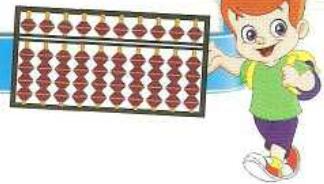
10



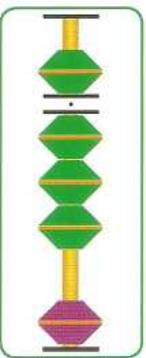
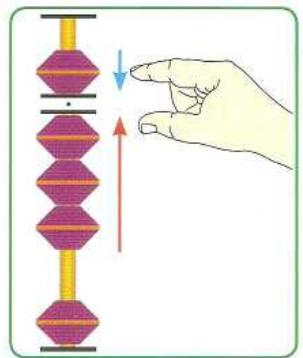
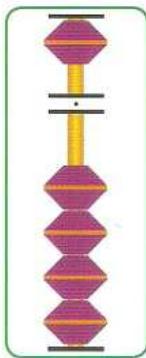
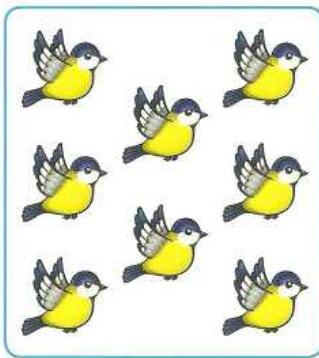
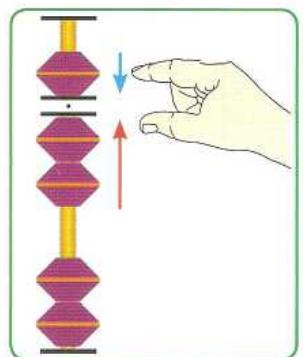
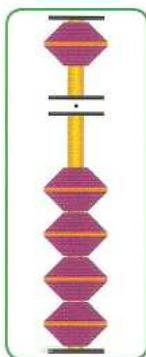
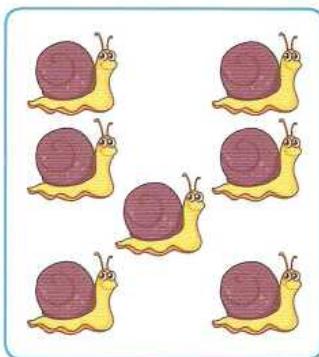
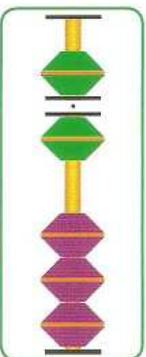
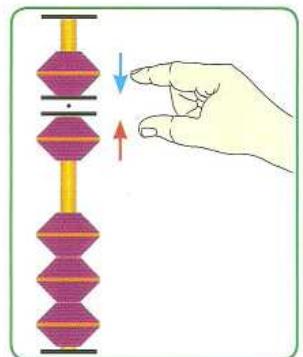
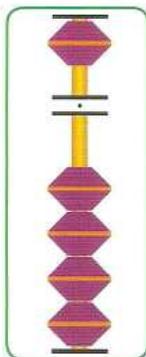
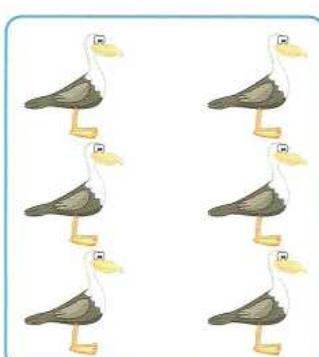
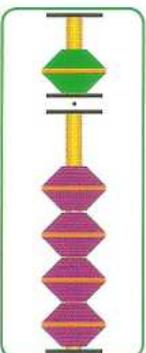
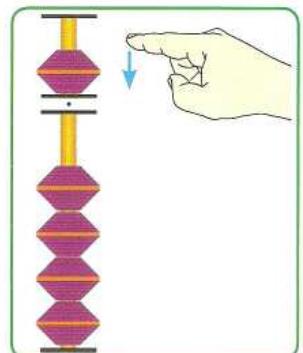
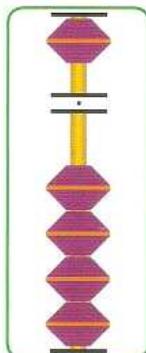
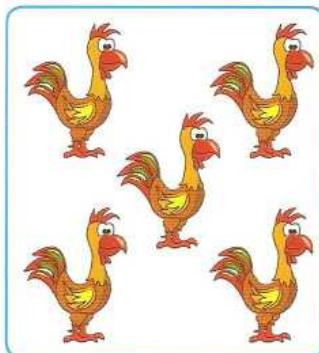


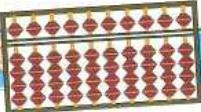
Ментальная Арифметика



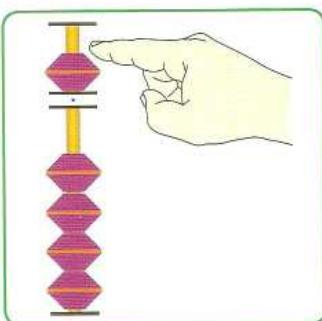


Запишем цифры, указанные на Абакусе

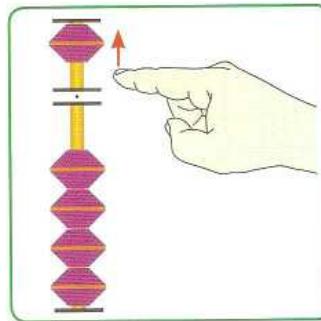




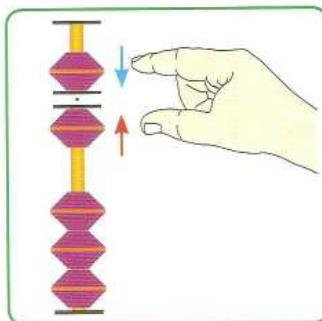
Для верхней части Абакуса при добавлении и вычитании используем только указательный палец



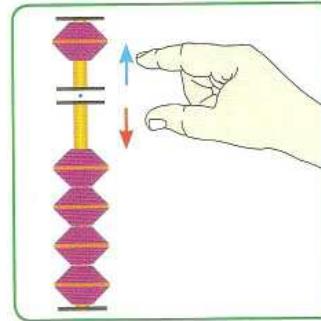
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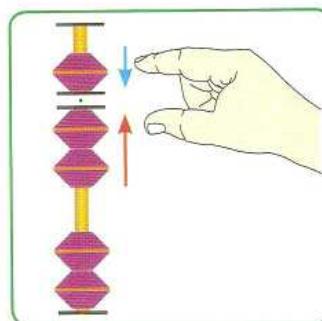
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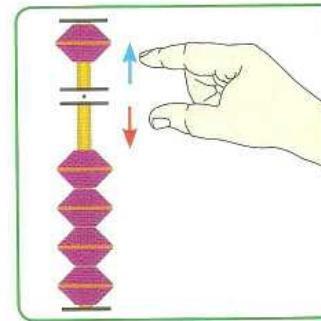
+ 6



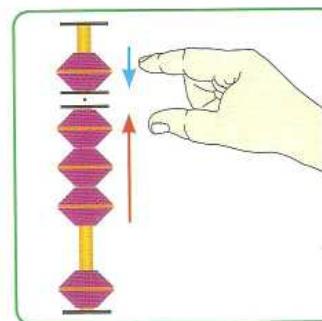
- 6



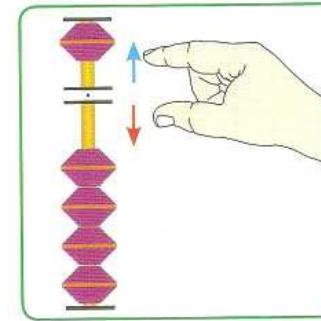
+ 7



- 7



+ 8



- 8

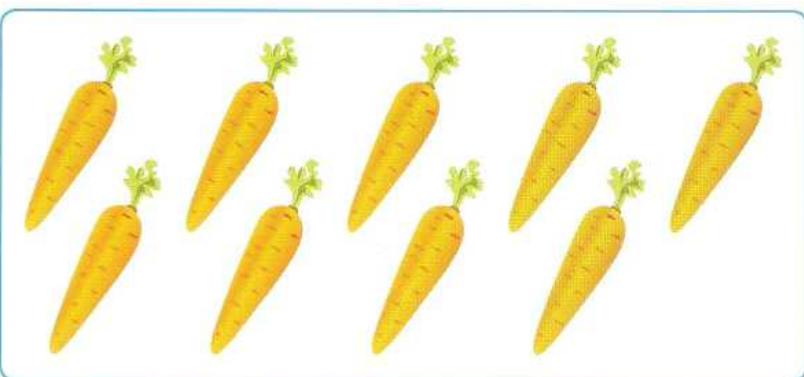
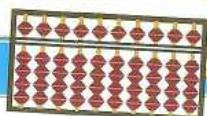
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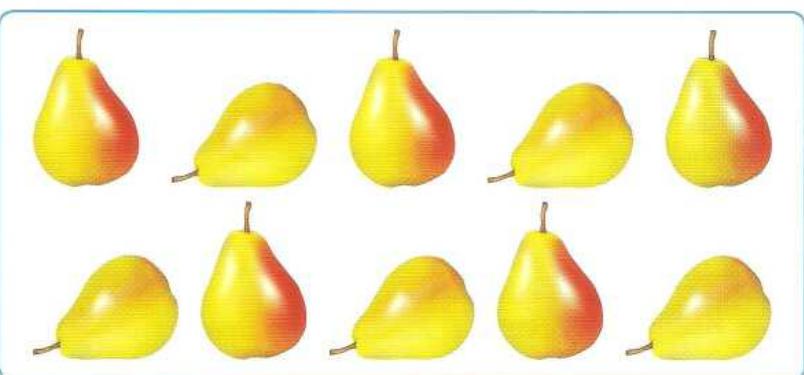
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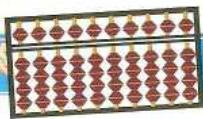




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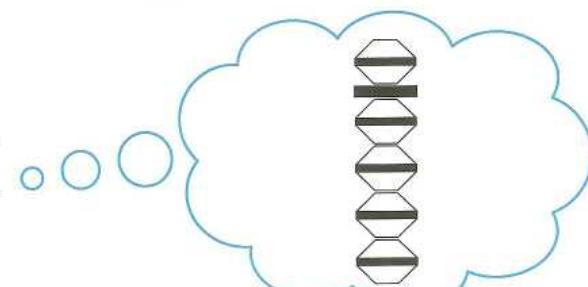
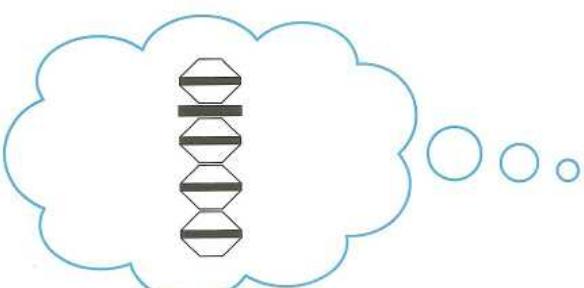
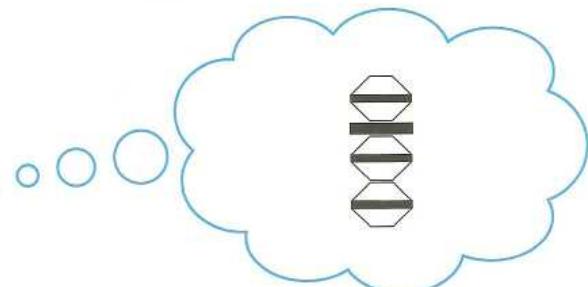
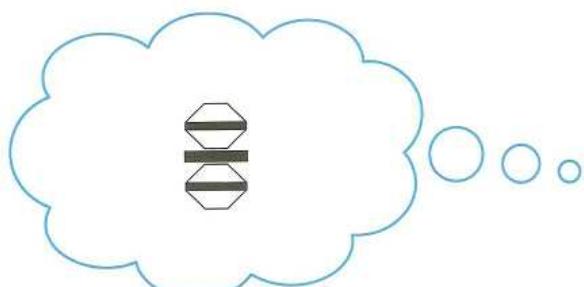
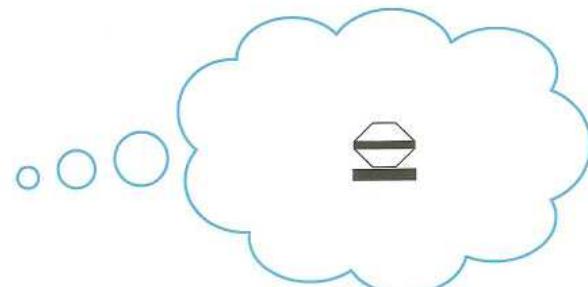
10



Ментальная Арифметика

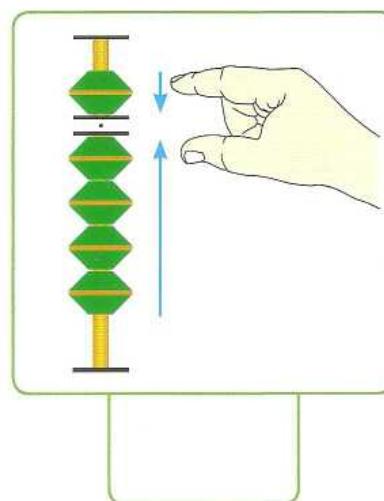
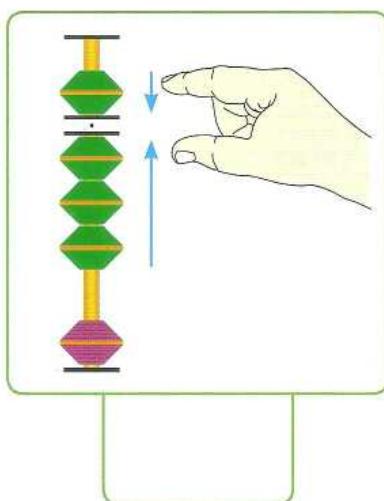
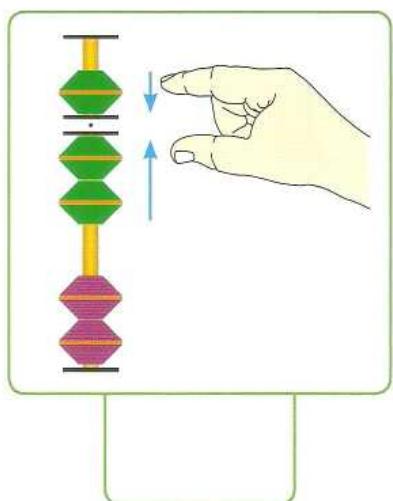
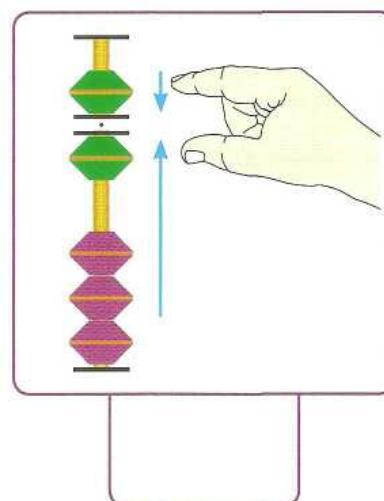
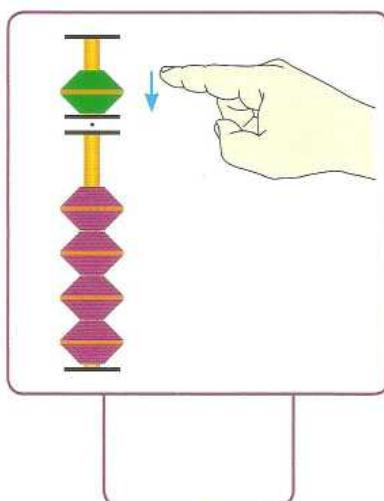
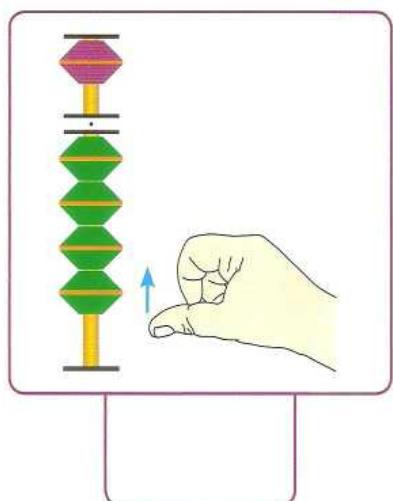
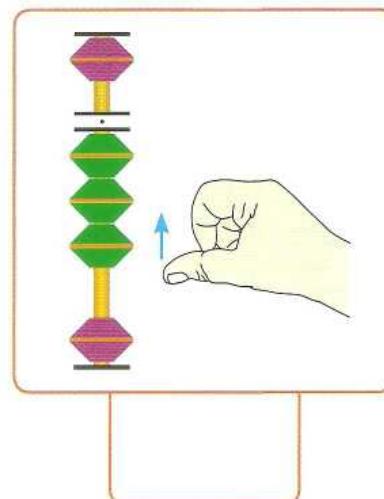
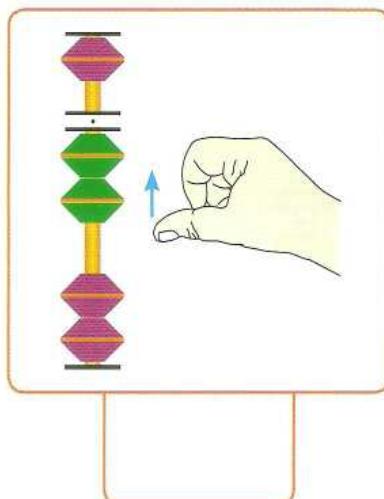
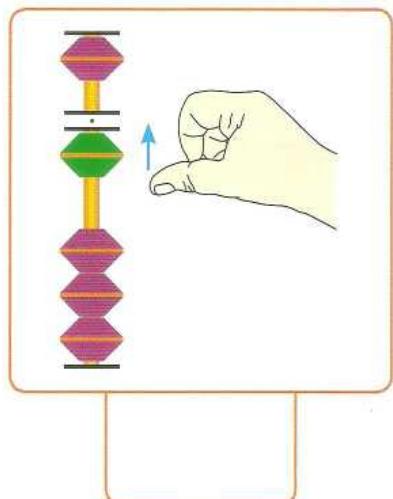


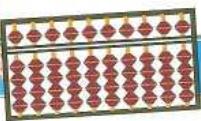
Представим в уме Абакус и разукрасим



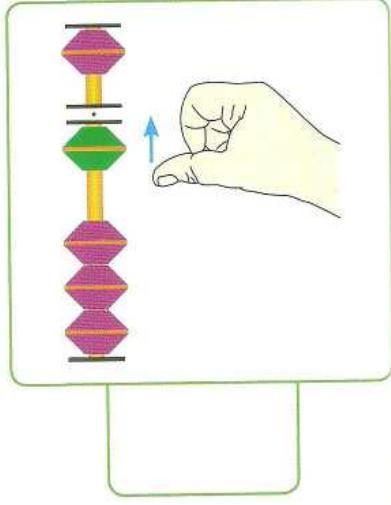
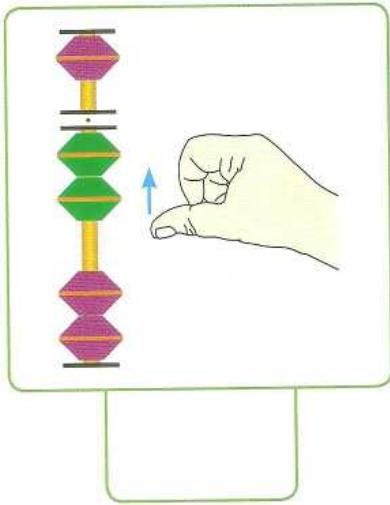
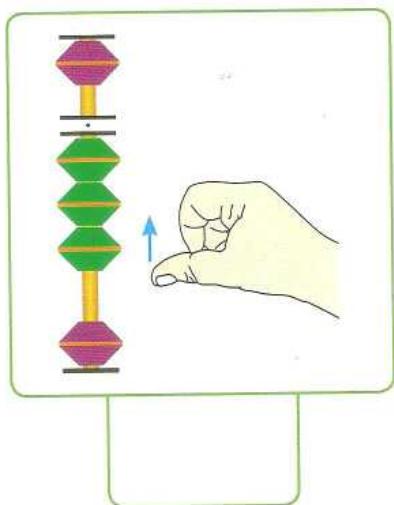
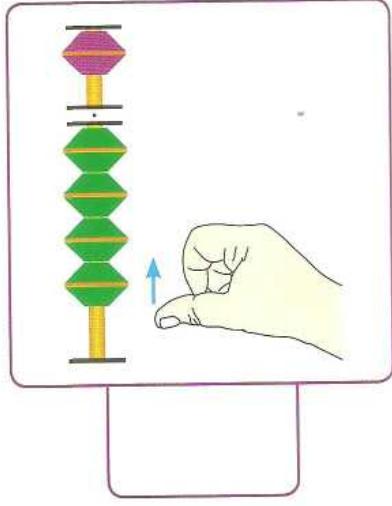
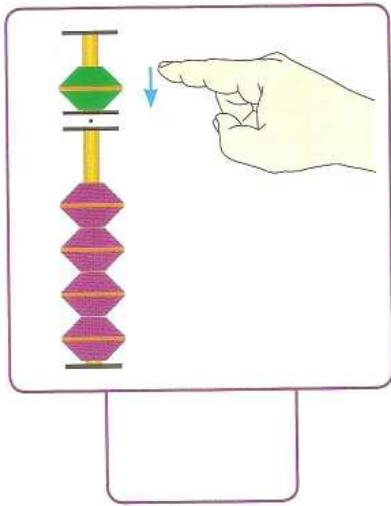
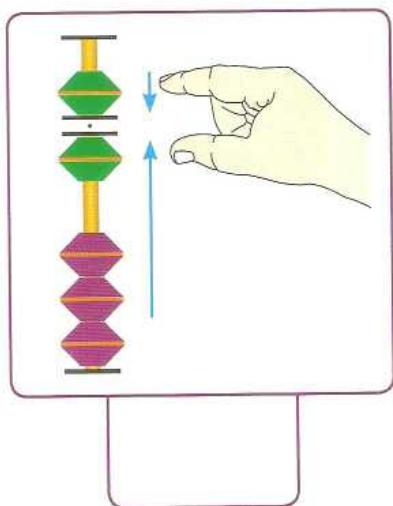
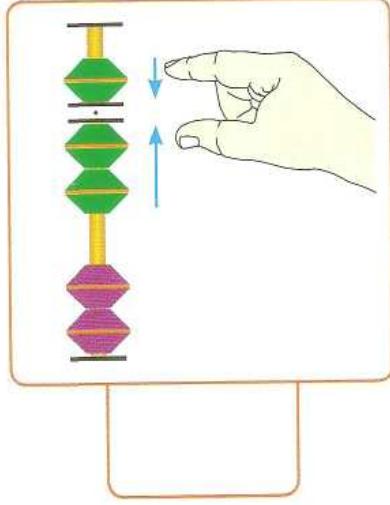
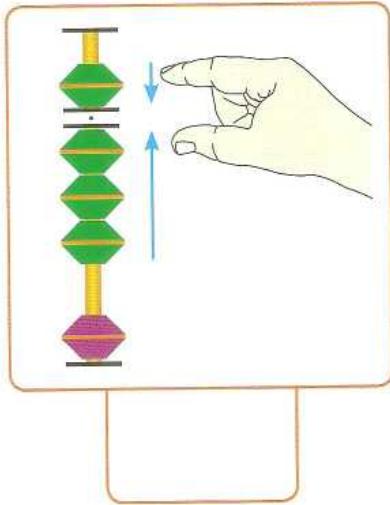
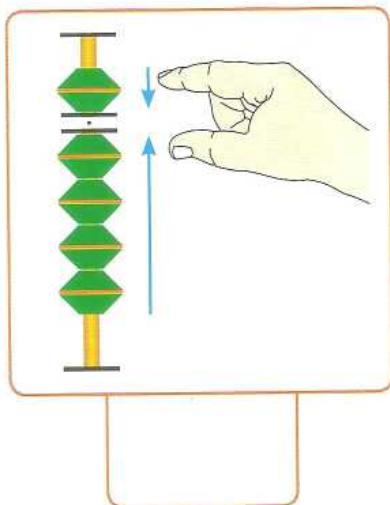


Запишем цифры, показанные на Абакусе

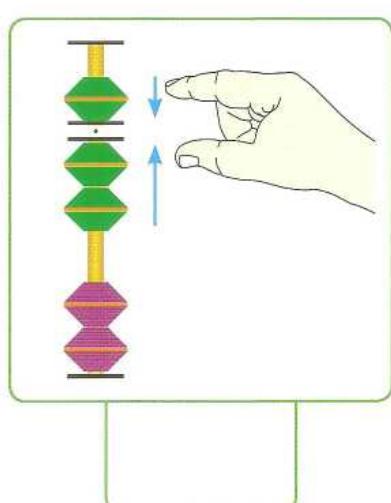
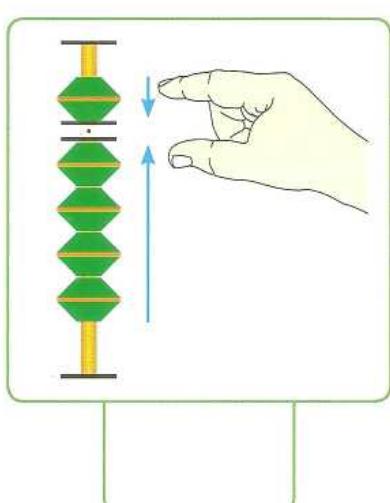
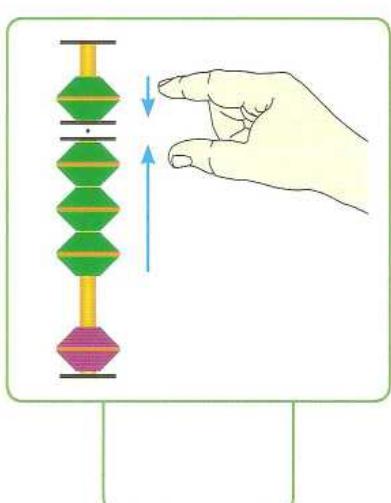
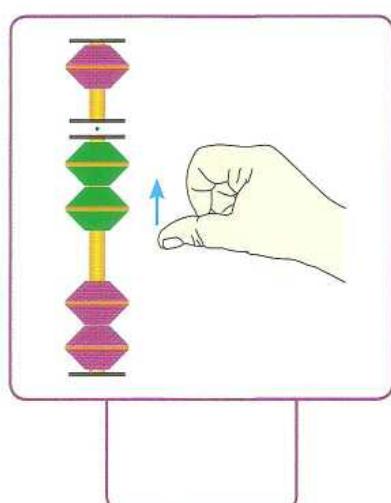
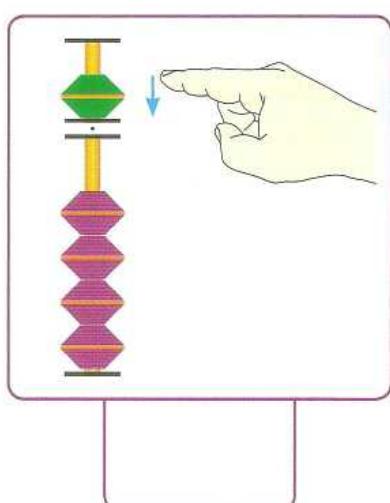
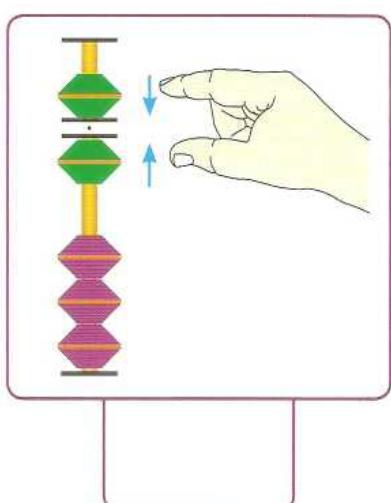
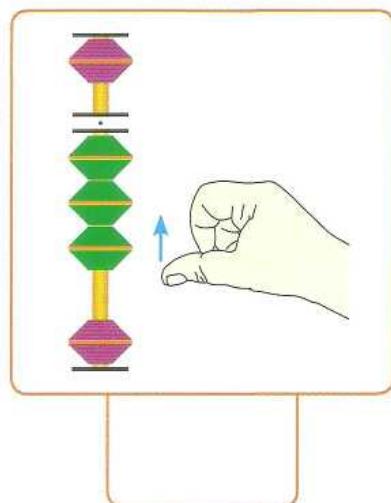
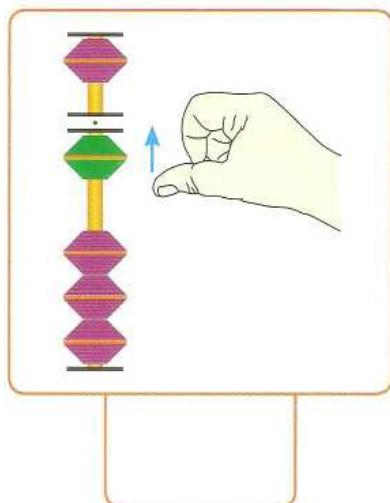
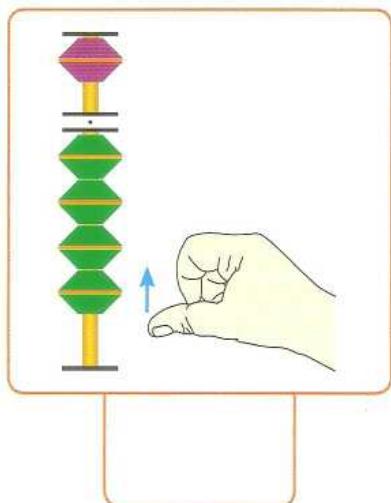
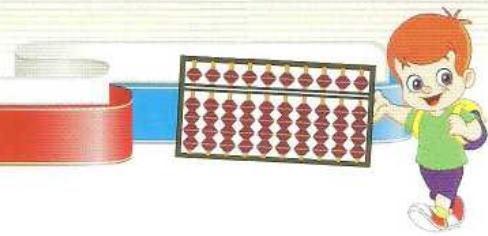




Ментальная Арифметика

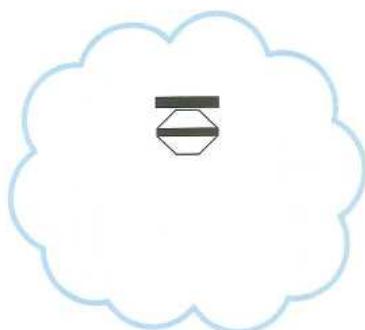


Ментальная Арифметика

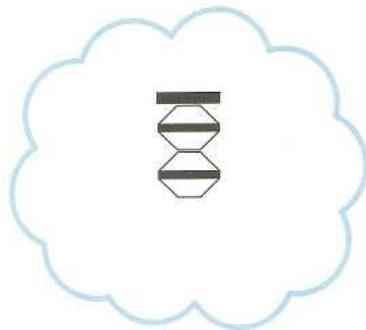




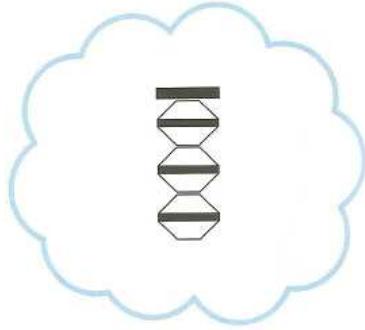
Теперь, давайте разукрасим бусинки



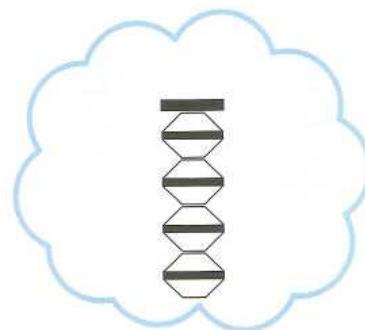
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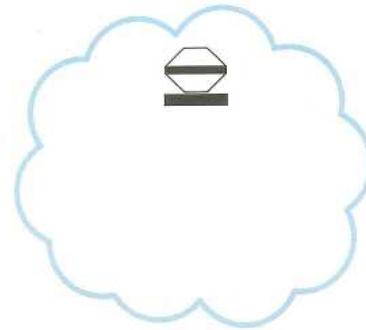
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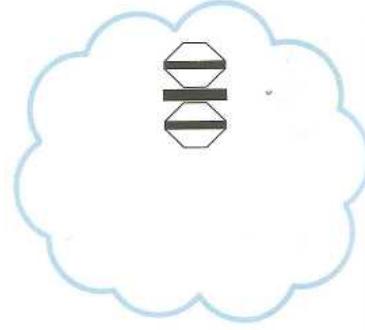
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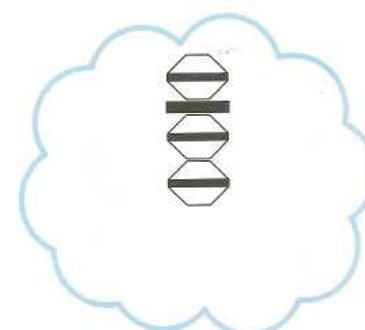
4



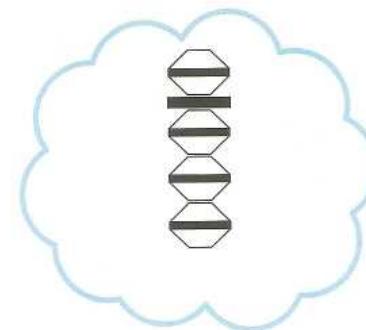
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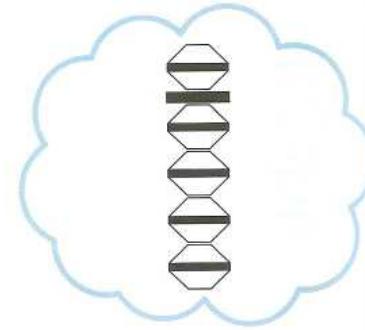
6



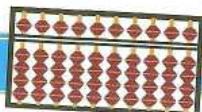
7



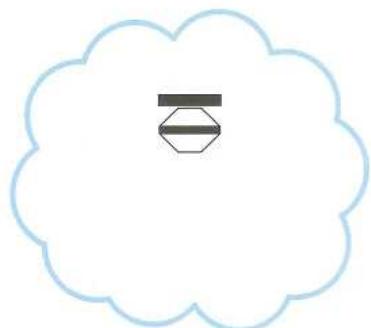
8



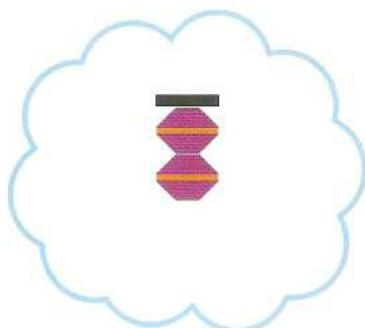
9



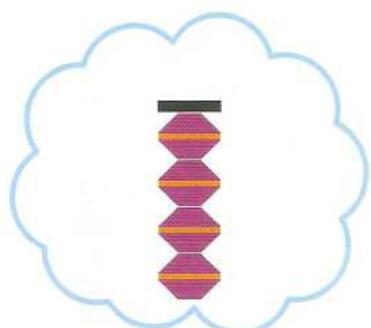
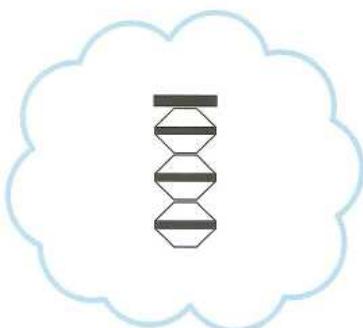
А сейчас заполним пропуски



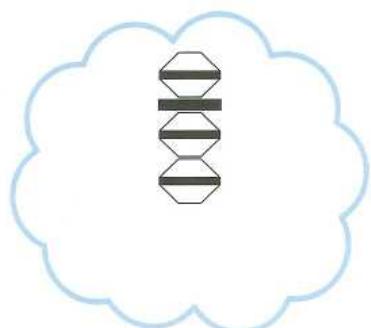
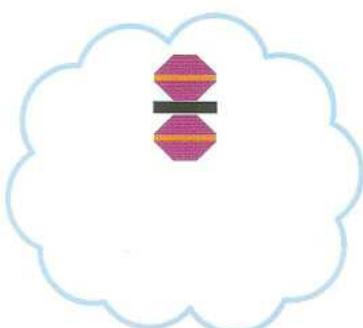
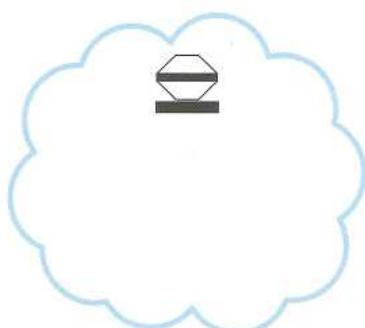
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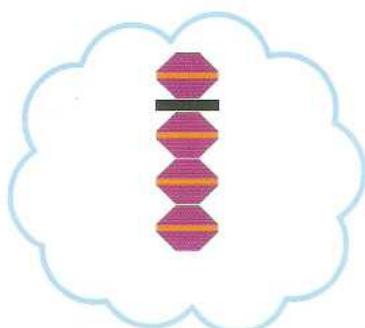
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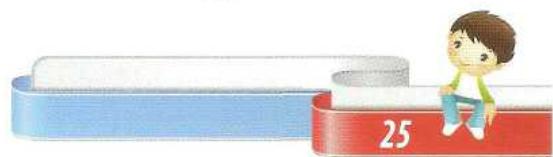
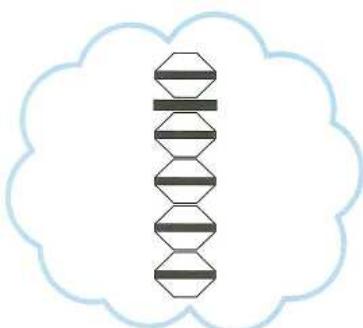
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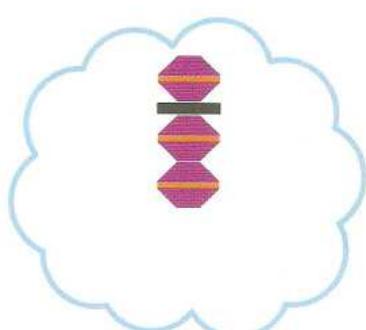
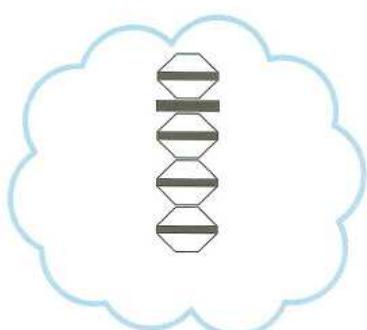
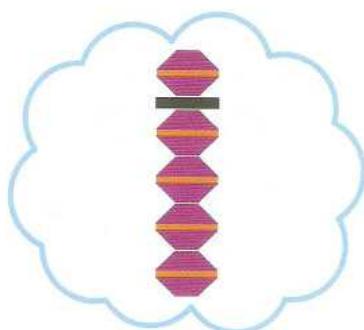
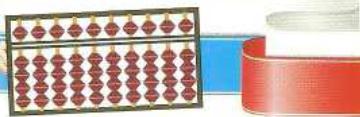


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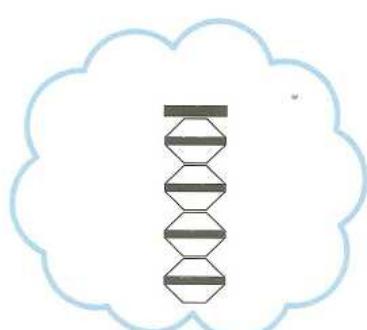
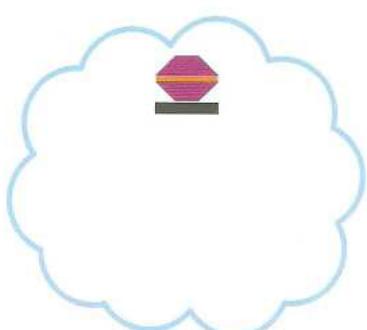
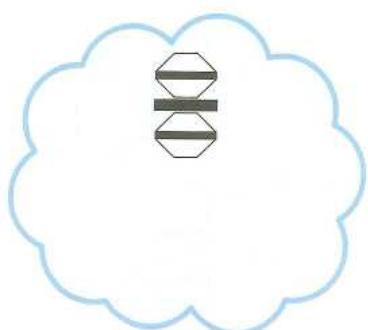


9



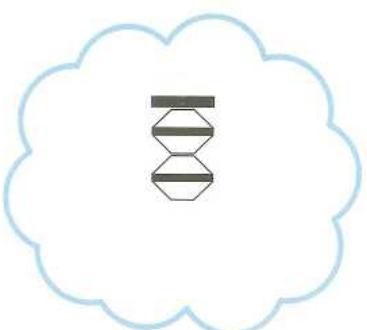
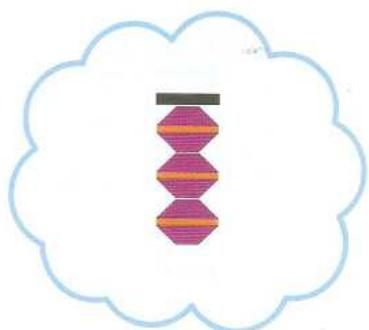


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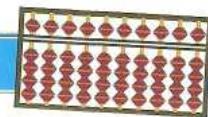
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4

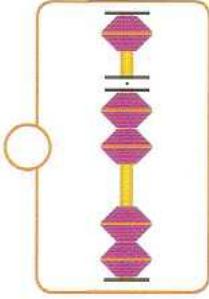
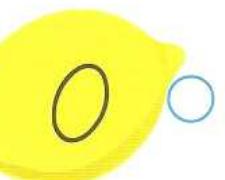
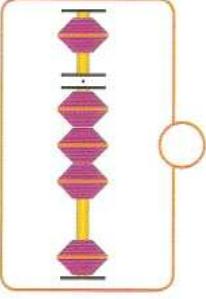
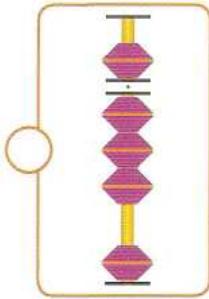
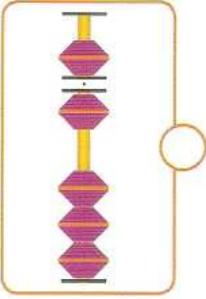
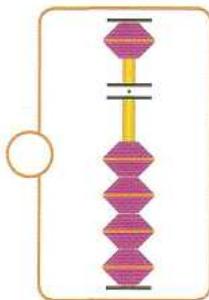
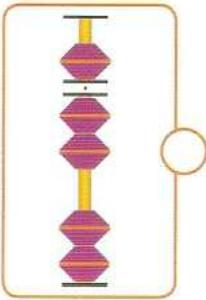
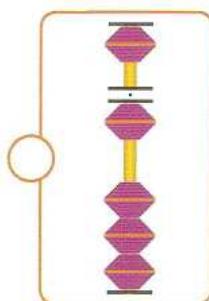
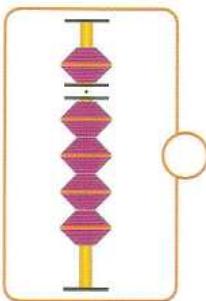
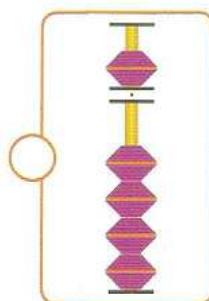
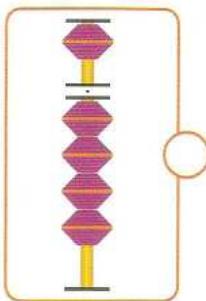


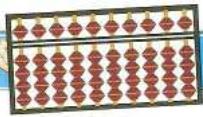
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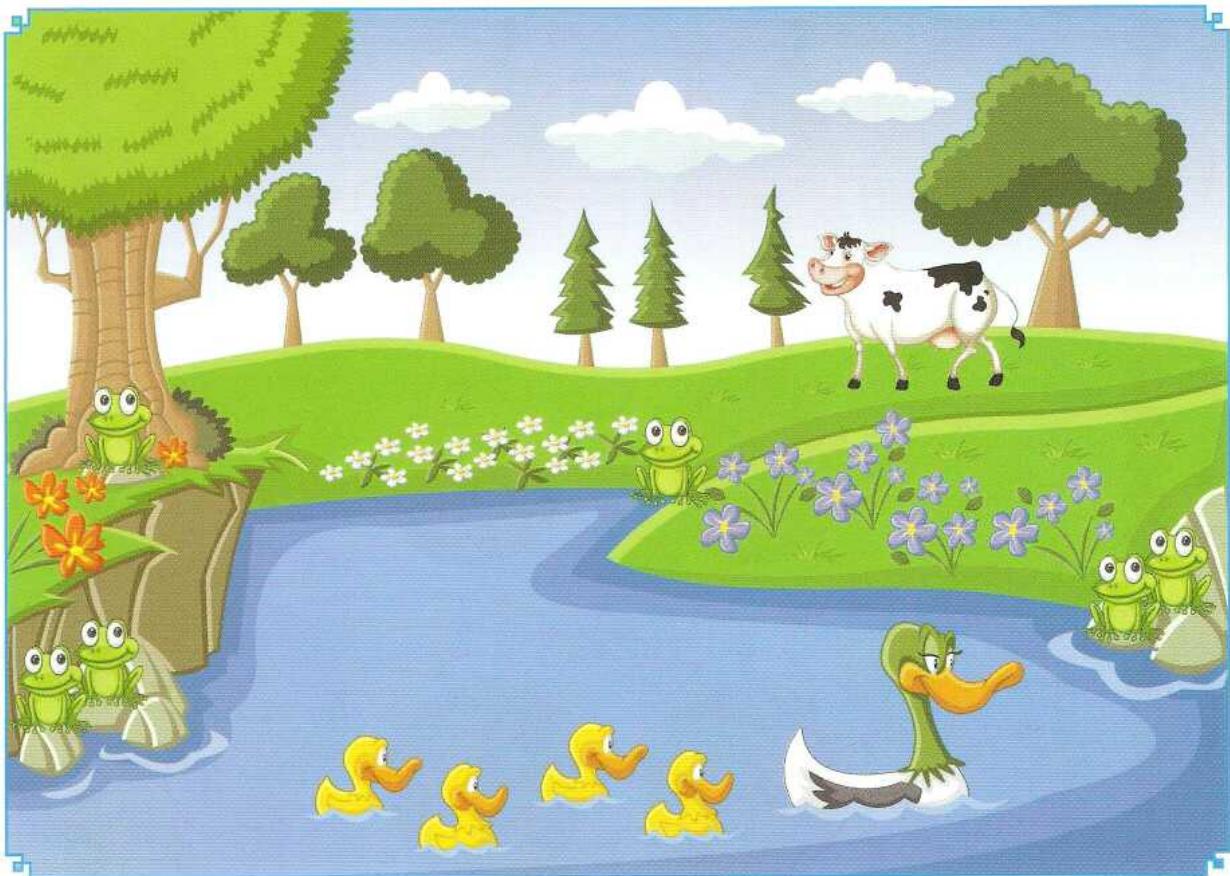


Попробуем подобрать нужный фрукт





Давайте ответим на вопросы по рисунку



★ Сколько облаков на рисунке? ○



★ Сколько лягушек? ○



★ Сколько деревьев? ○

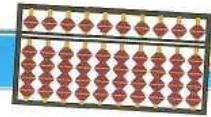


★ Сколько уток? ○



★ Сколько коров? ○

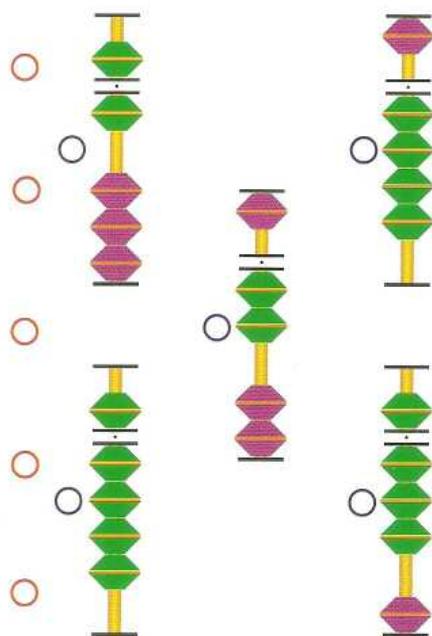




Выберем верные ответы на вопросы



★ Сколько дельфинов на рисунке?

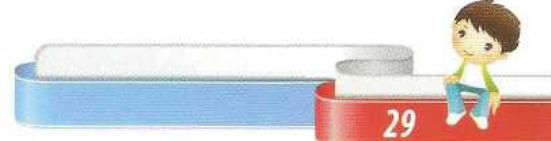


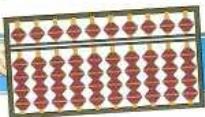
★ Сколько зонтиков?

★ Сколько морских звездочек?

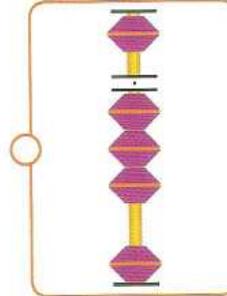
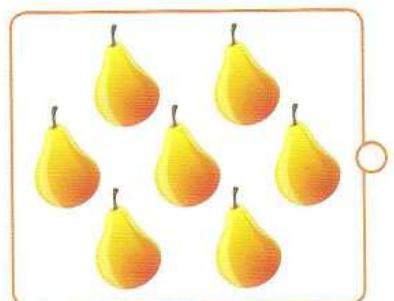
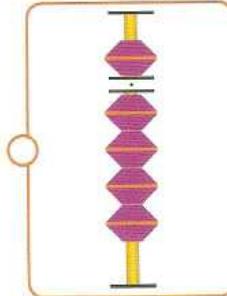
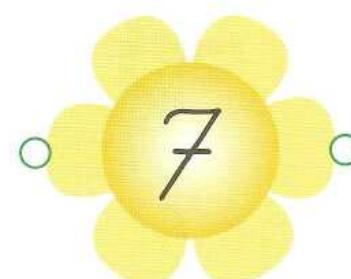
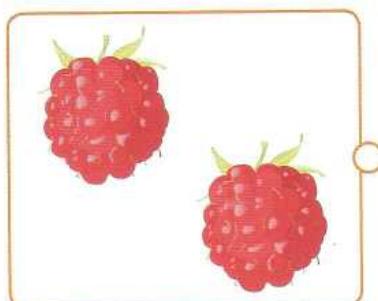
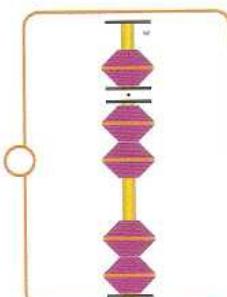
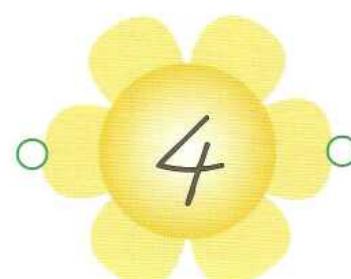
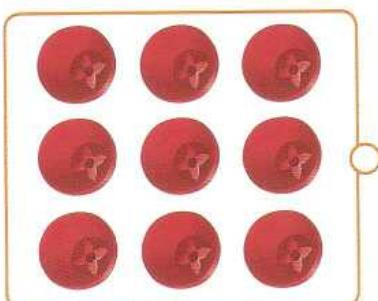
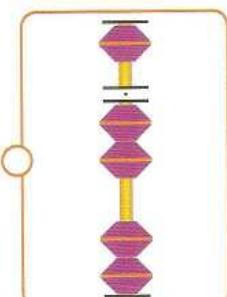
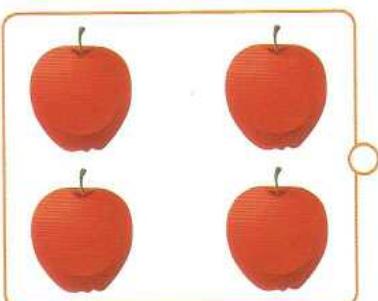
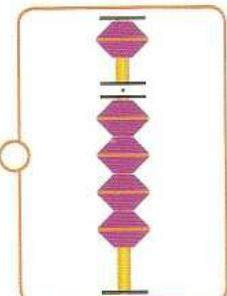
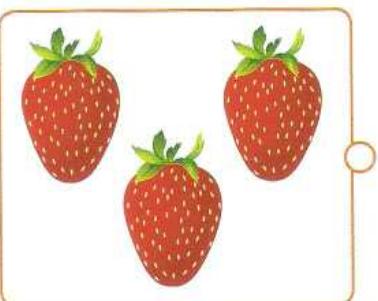
★ Сколько пальм?

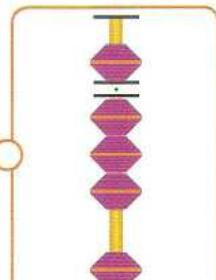
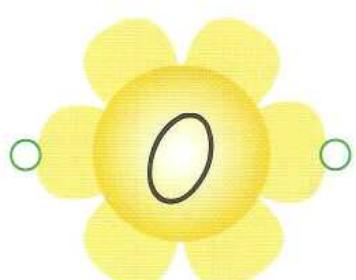
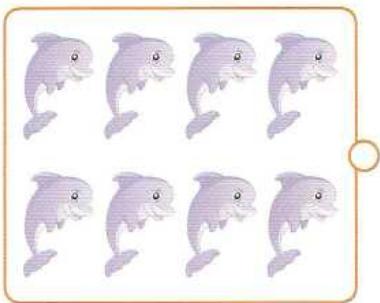
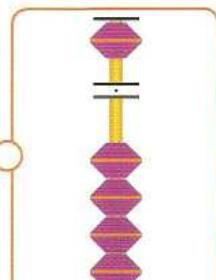
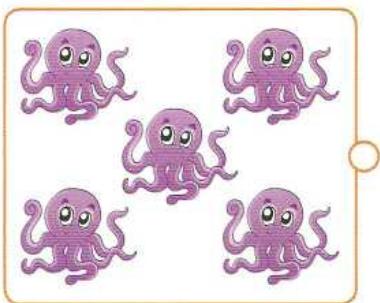
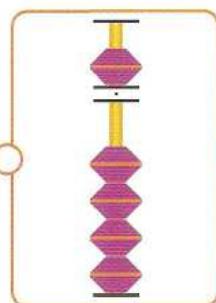
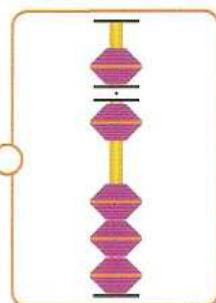
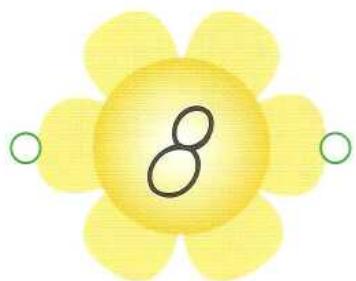
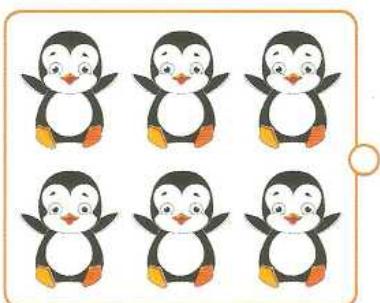
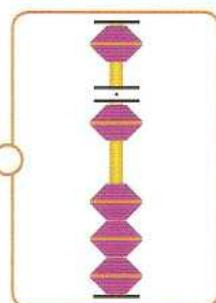
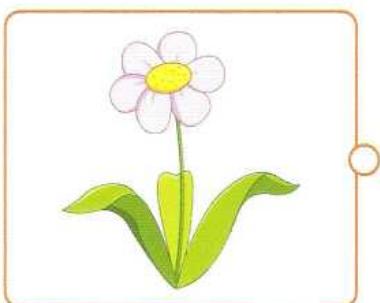
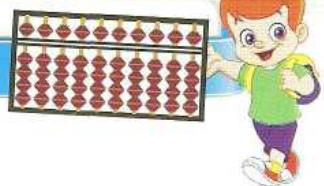
★ Сколько ракушек?

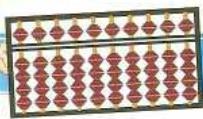




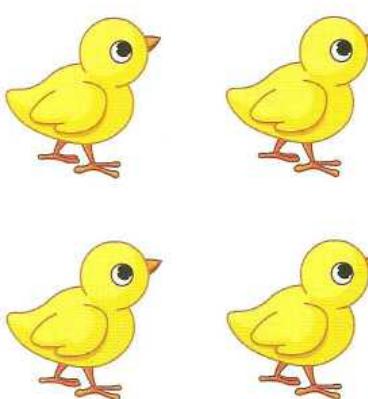
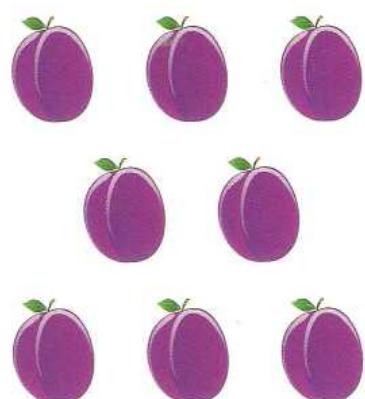
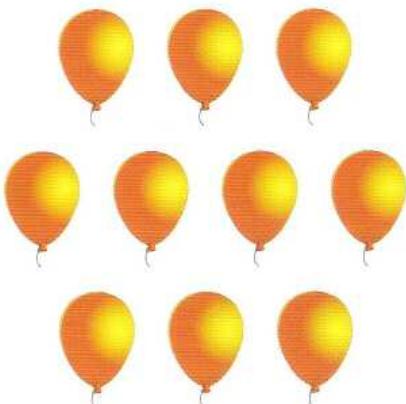
Давайте установим соответствие

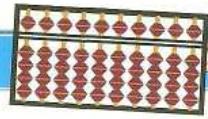


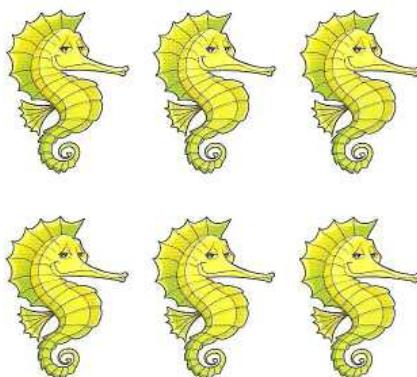


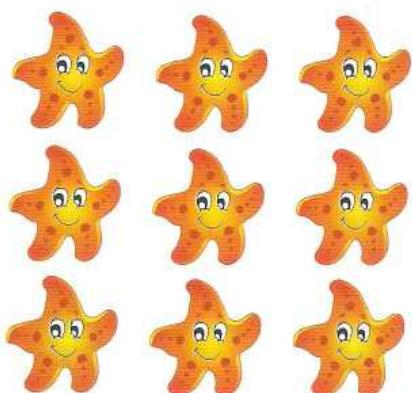


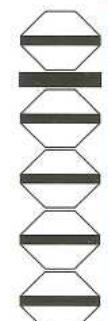
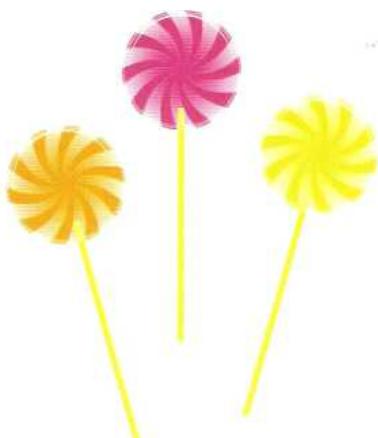
Разукрасим нужное количество бусинок и запишем полученное число

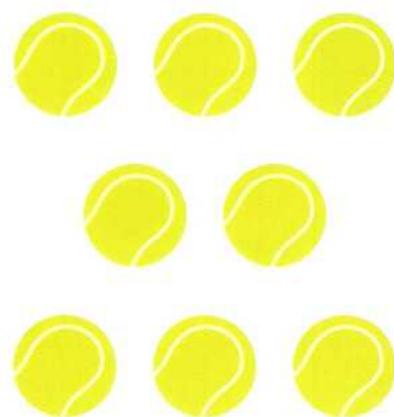


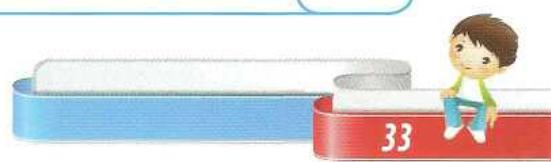


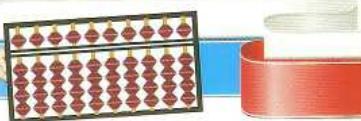




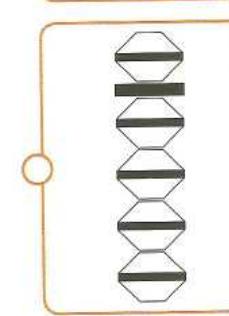
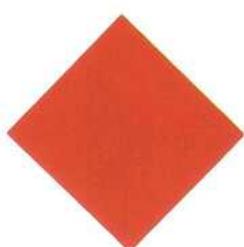
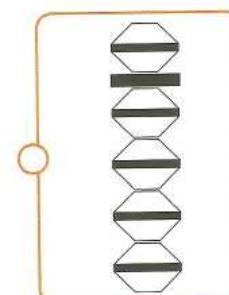
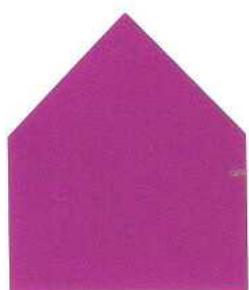
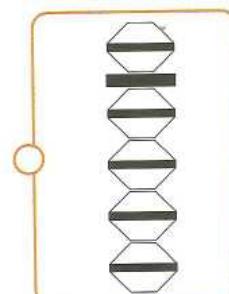
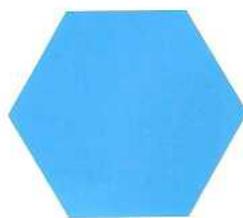
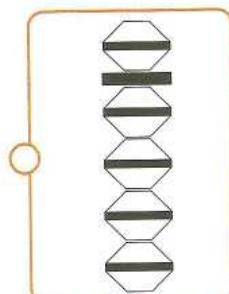
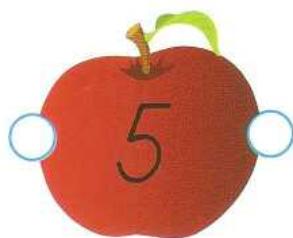
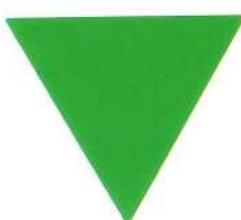
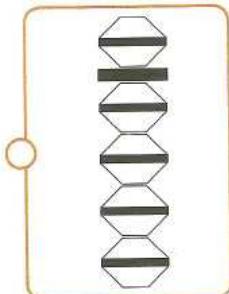
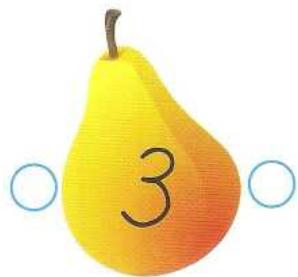


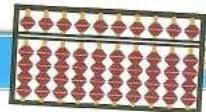






Для каждого фрукта найдем свою фигуру, посчитав количество их углов. А после закрасим столько же бусинок на Абакусе.





Разукрасим указанное количество бусинок



6



3



1



8



4



7



9



2

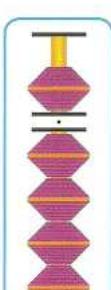


5

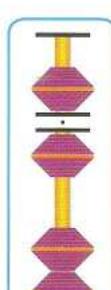


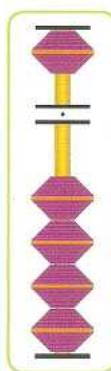
Напишем цифры, указанные на Абакусе

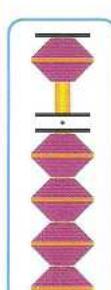




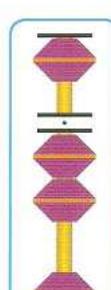




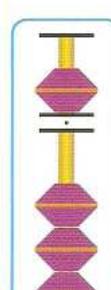




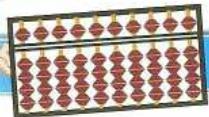




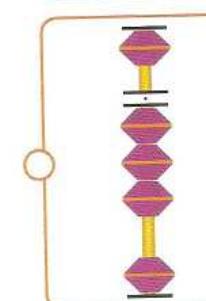
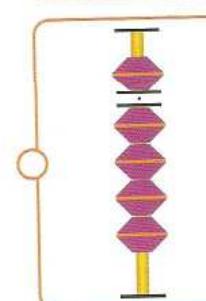
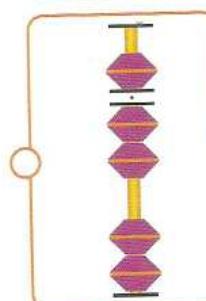
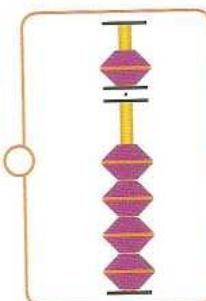
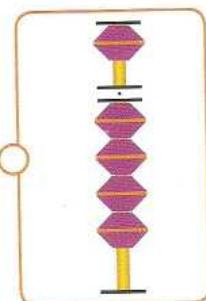
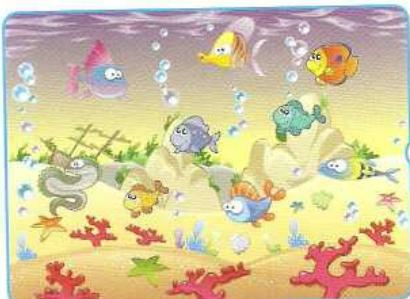


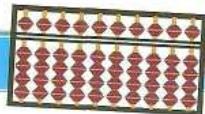




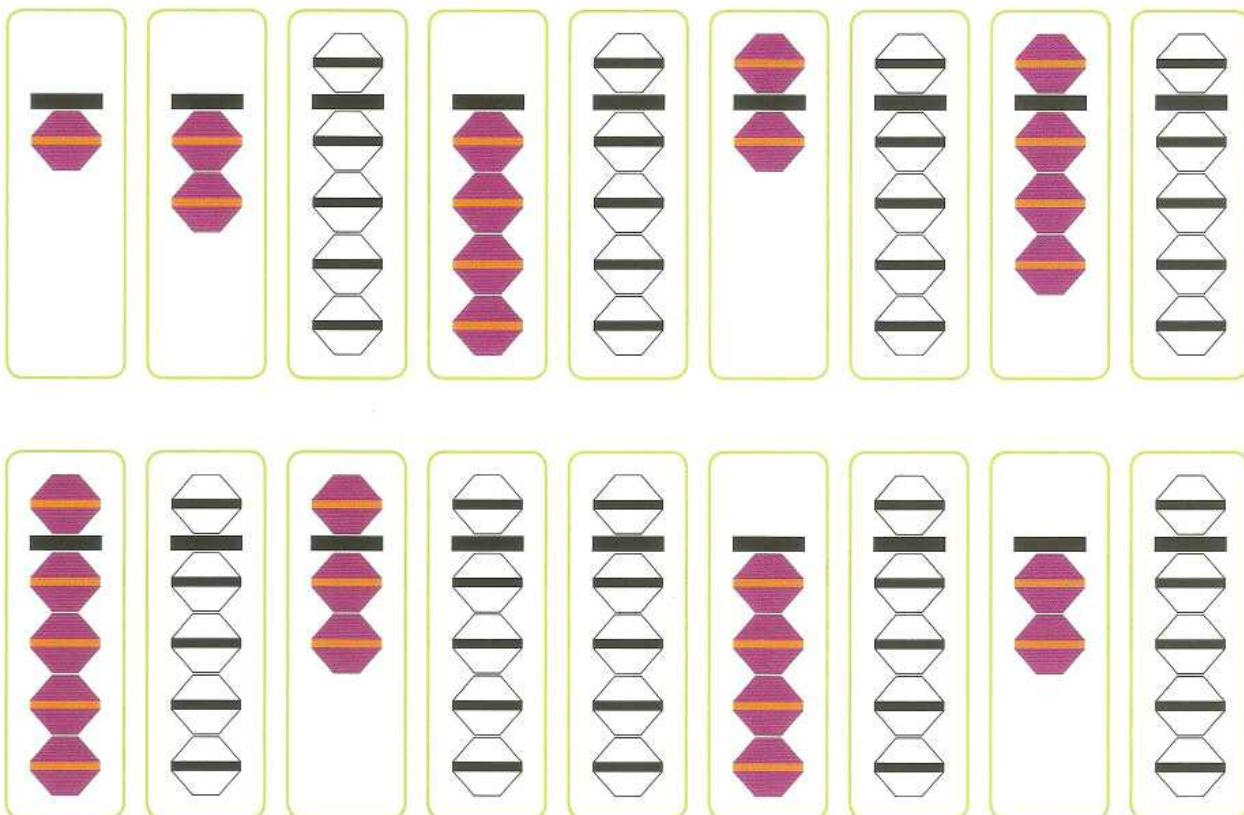


Посчитаем количество рыбок и найдем подходящий Абакус для каждого аквариума

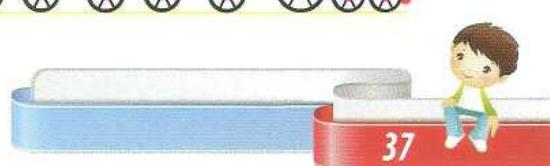
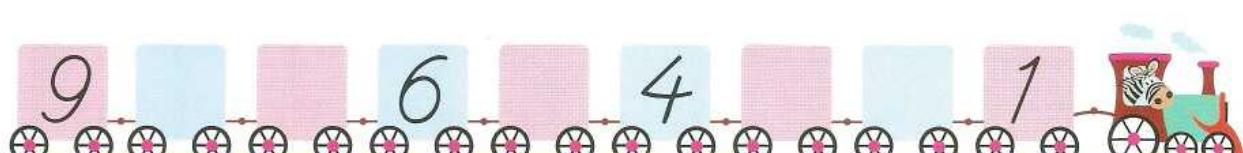
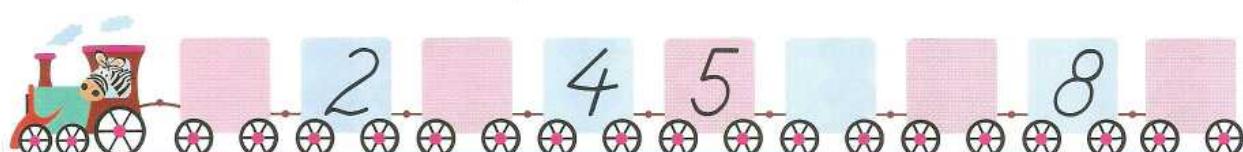


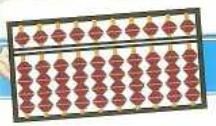


Разукрасим бусинки Абакуса

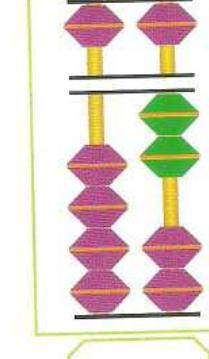
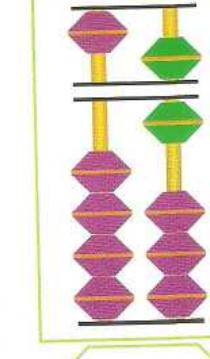
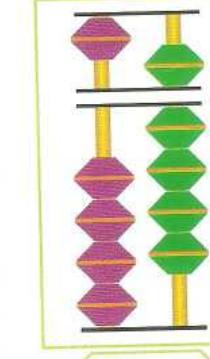
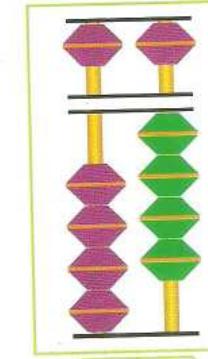
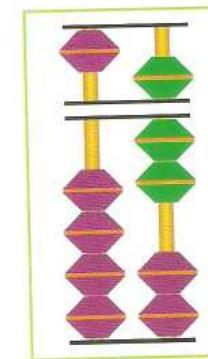
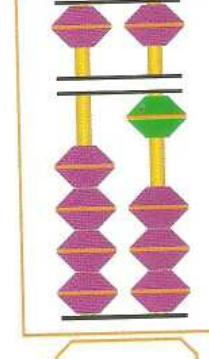
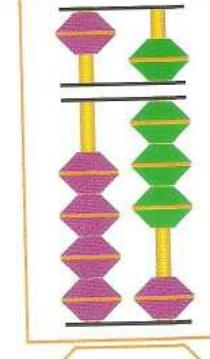
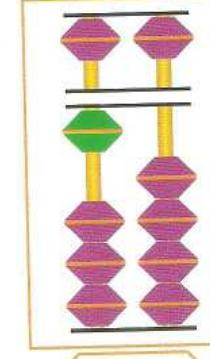
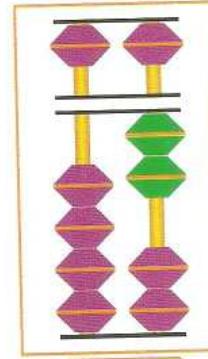
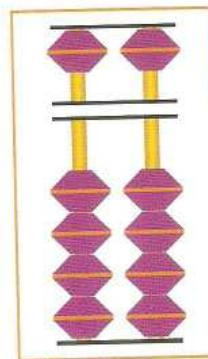
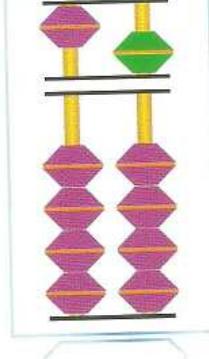
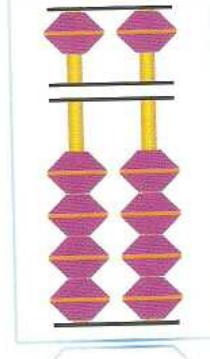
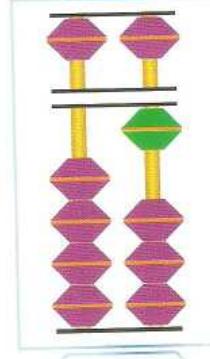
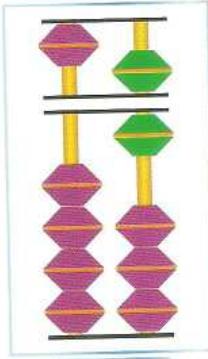
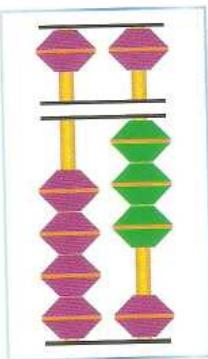


Выпишем пропущенные цифры





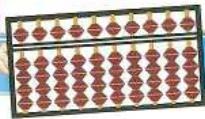
Запишем цифры, указанные на Абакусе



Ментальная Арифметика







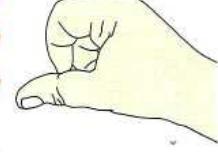
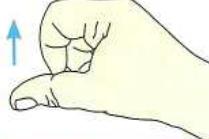
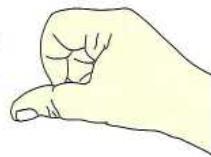
Теперь мы с Вами научимся прибавлять



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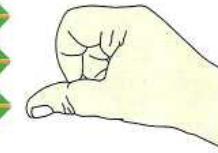
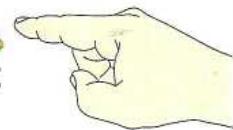


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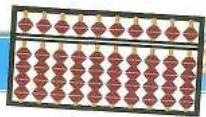


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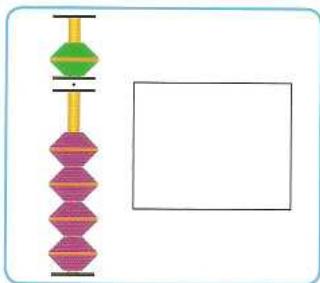
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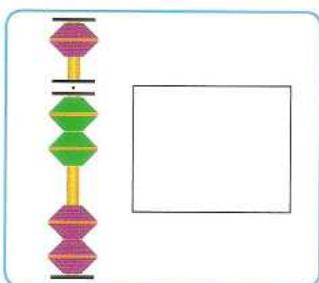
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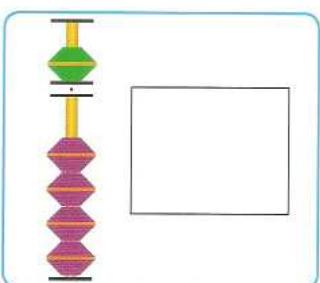
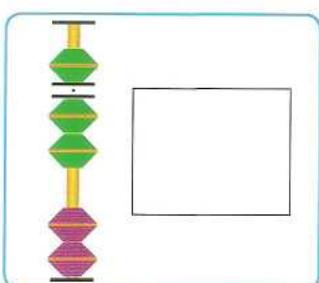
Давайте попробуем сложить на Абакусе



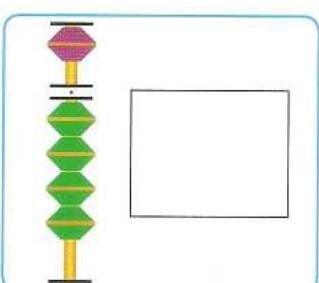
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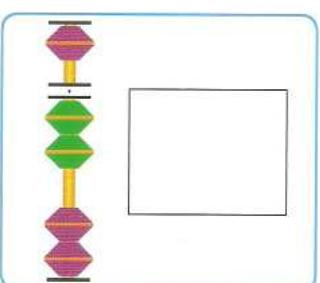
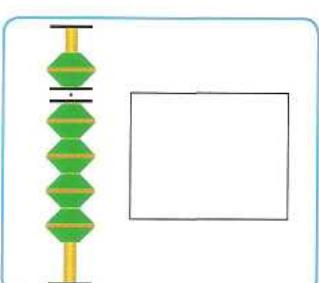
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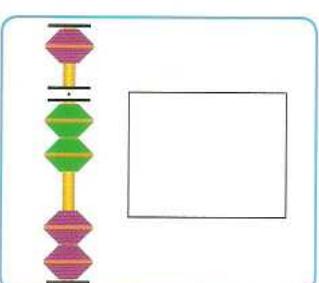
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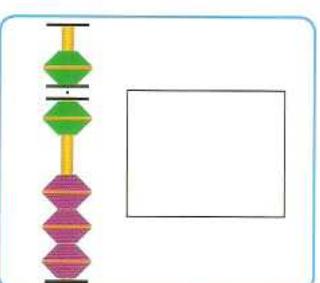
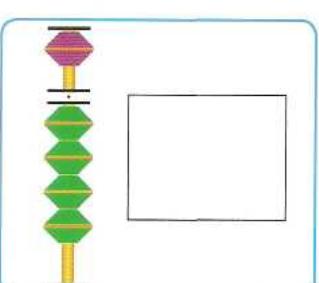
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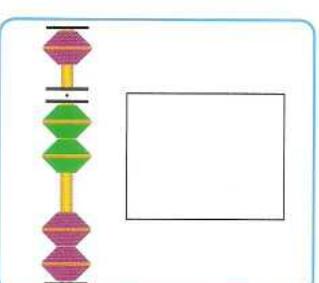
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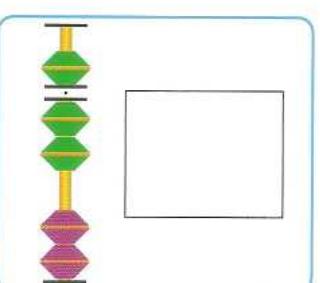
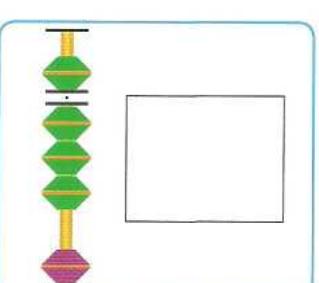
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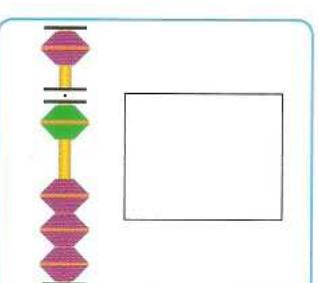
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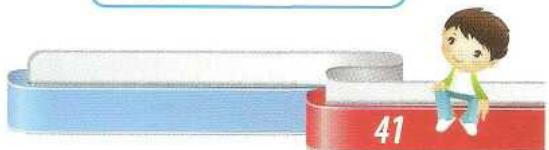
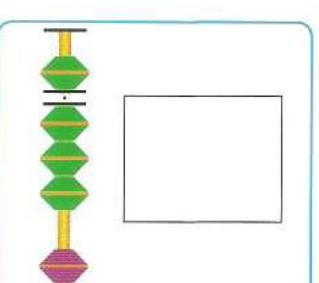
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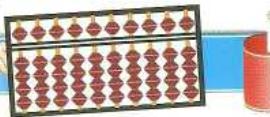


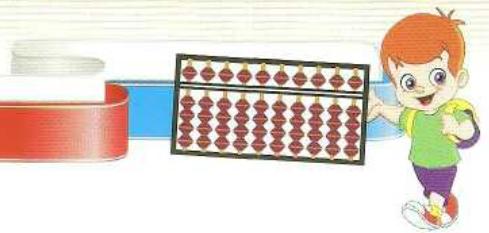
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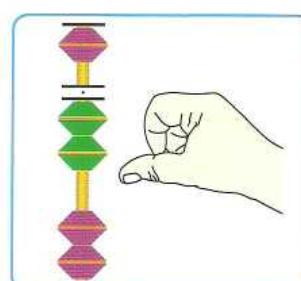
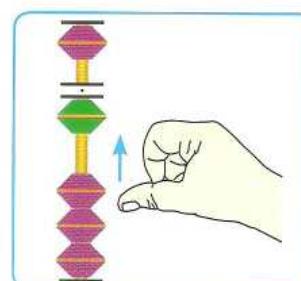
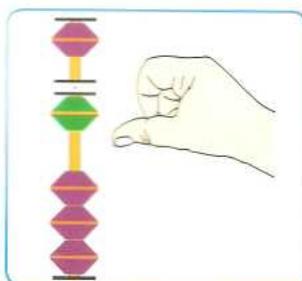




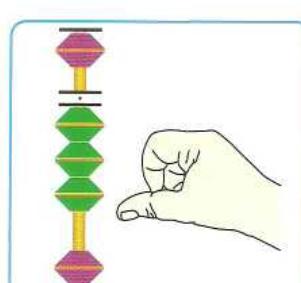
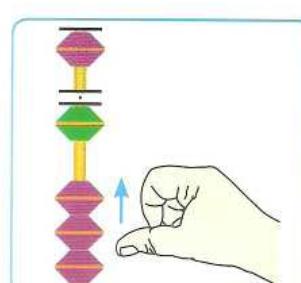
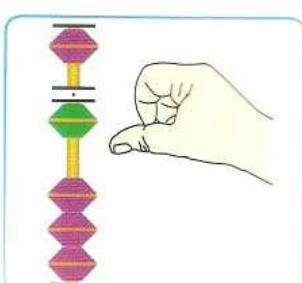


Полученный результат запишем слева

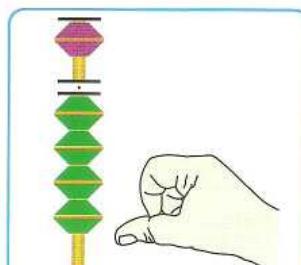
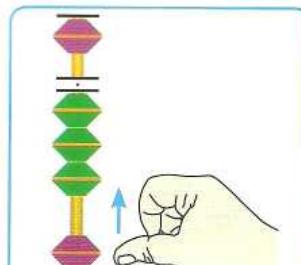
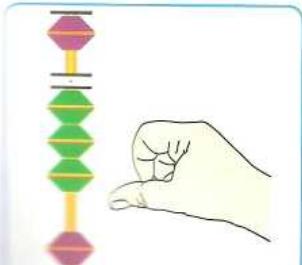
$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$



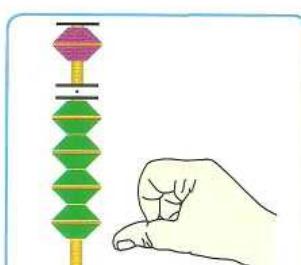
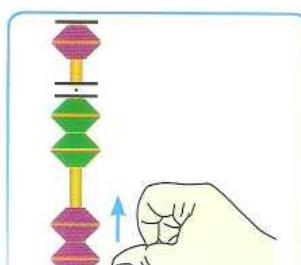
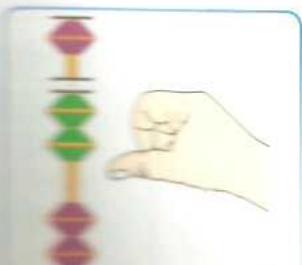
$$\begin{array}{r} 1 \\ + 2 \\ \hline \end{array}$$



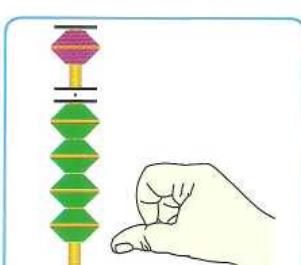
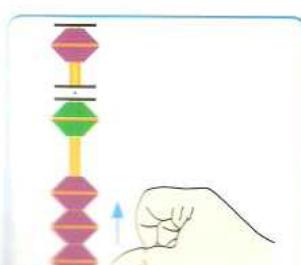
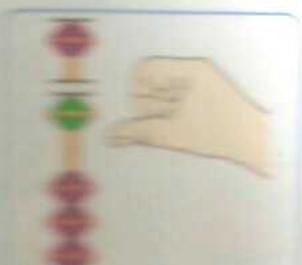
$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

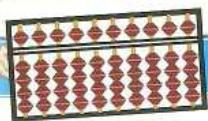


$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$



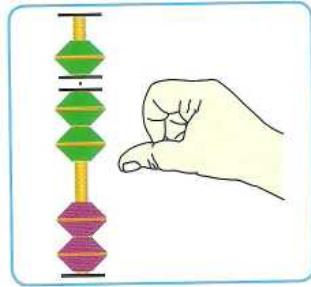
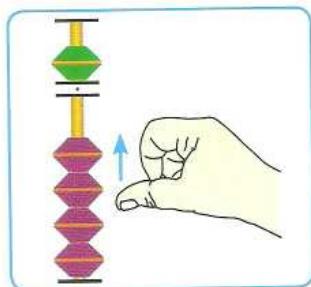
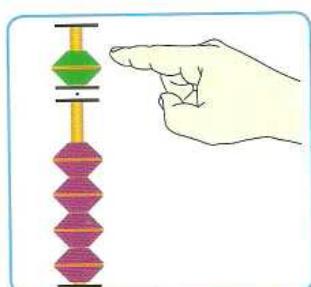
$$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$$



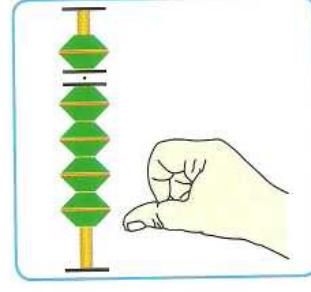
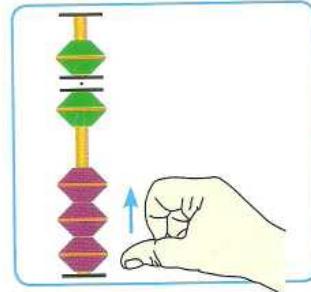
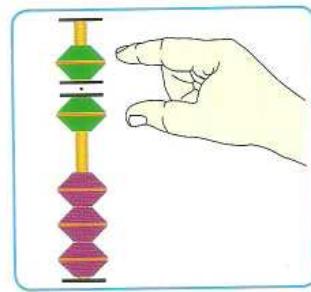


Ментальная Арифметика

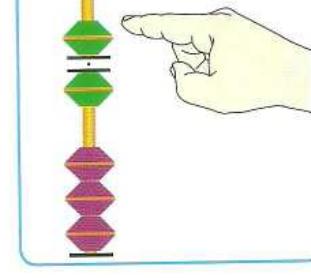
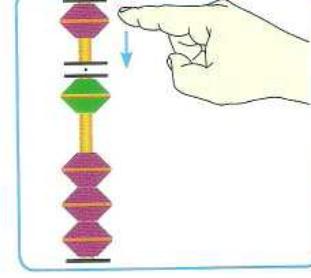
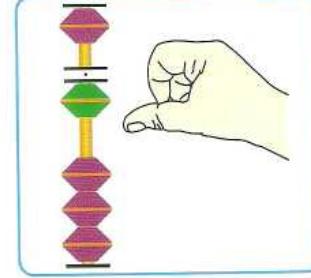
$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$



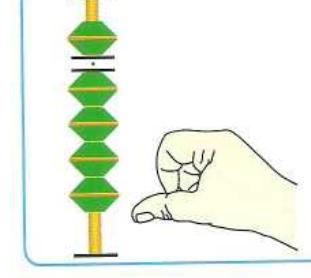
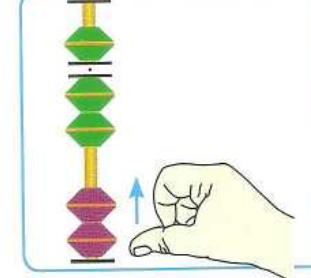
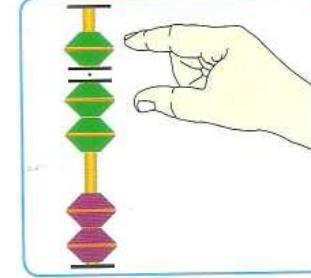
$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$



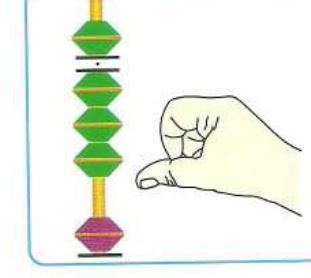
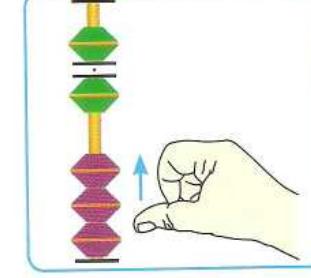
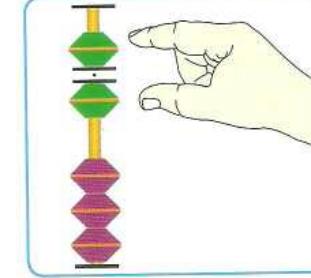
$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$



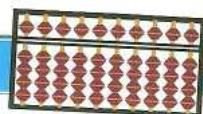
$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$



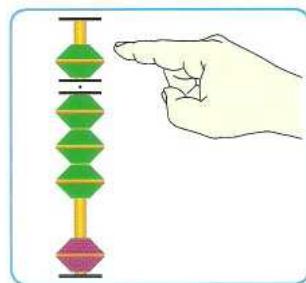
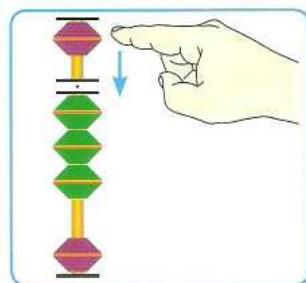
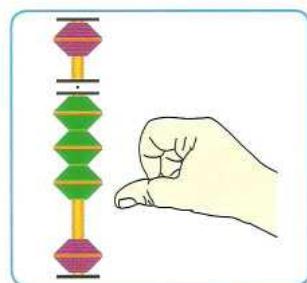
$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$



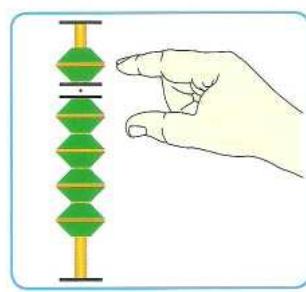
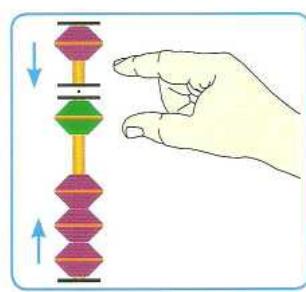
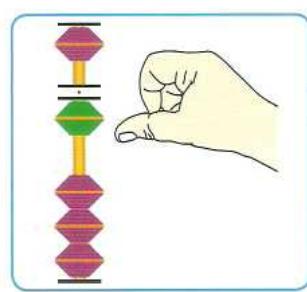
Ментальная Арифметика



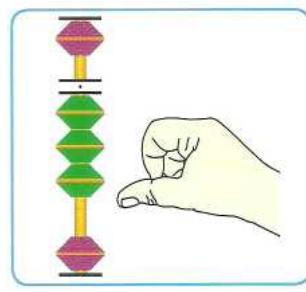
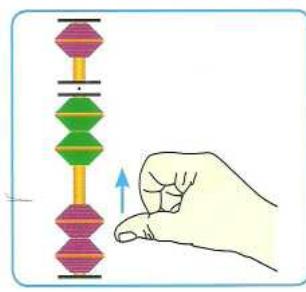
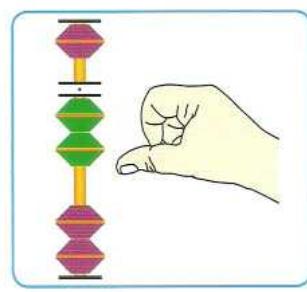
$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$



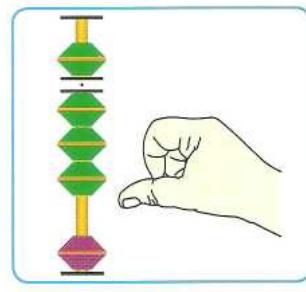
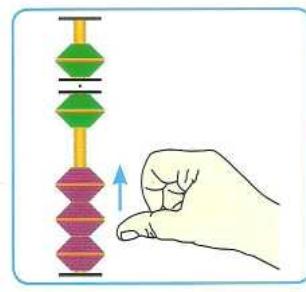
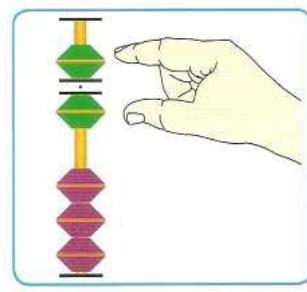
$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$



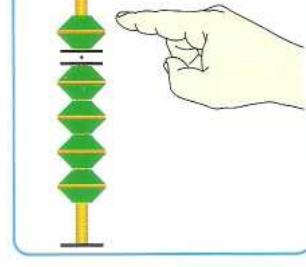
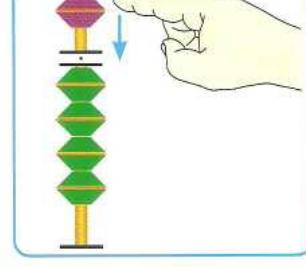
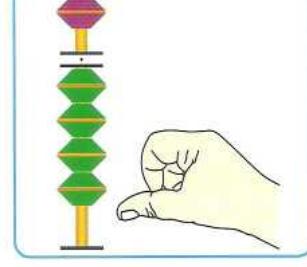
$$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$$

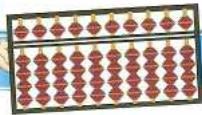


$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$



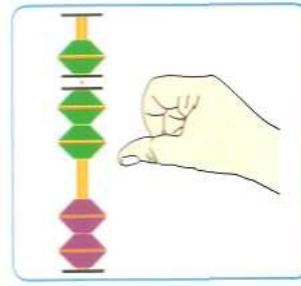
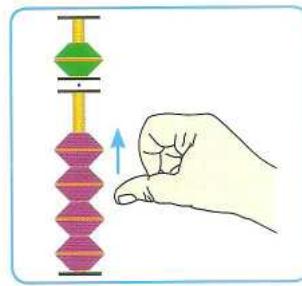
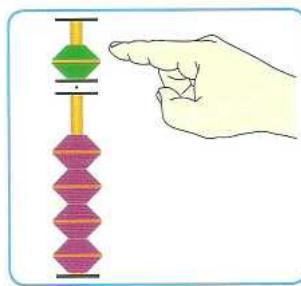
$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$



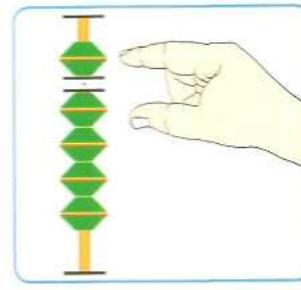
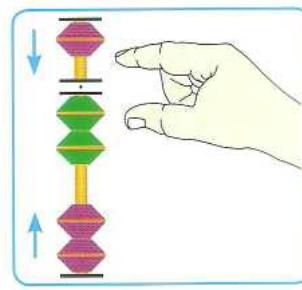
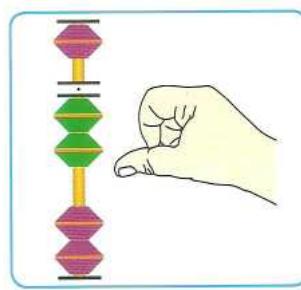


Ментальная Арифметика

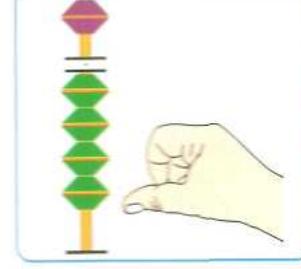
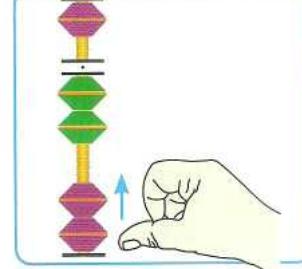
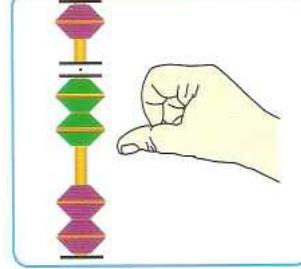
$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$



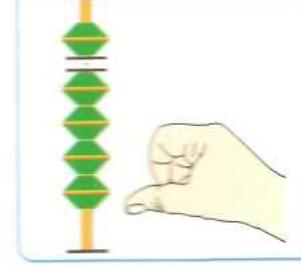
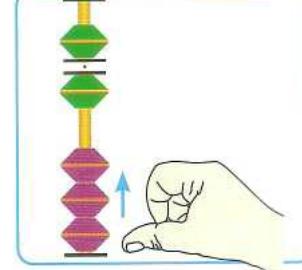
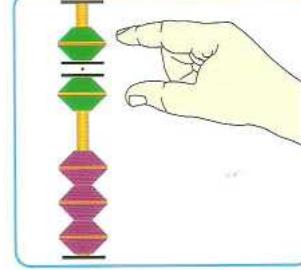
$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$



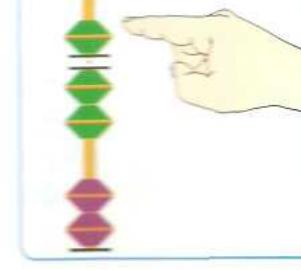
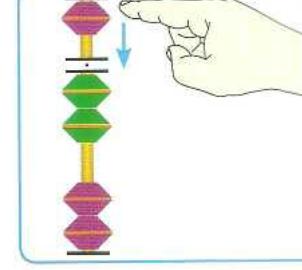
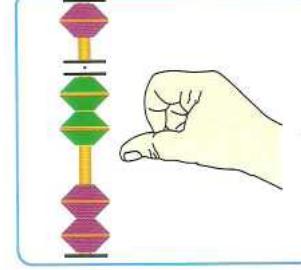
$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

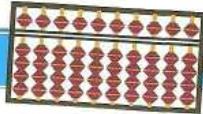


$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$



$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$





Решим примеры с помощью Абакуса

$$\begin{array}{ccc} \text{apple } 3 & + & \text{apple } 1 \\ & & = \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{pear } 3 & + & \text{pear } 5 \\ & & = \boxed{} \end{array}$$

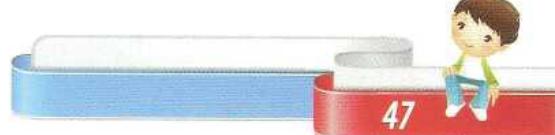
$$\begin{array}{ccc} \text{apple } 7 & + & \text{apple } 2 \\ & & = \boxed{} \end{array}$$

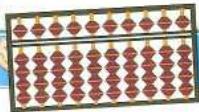
$$\begin{array}{ccc} \text{orange } 4 & + & \text{orange } 5 \\ & & = \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{lemon } 1 & + & \text{lemon } 2 \\ & & = \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{apple } 8 & + & \text{apple } 1 \\ & & = \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{strawberry } 6 & + & \text{strawberry } 1 \\ & & = \boxed{} \end{array}$$





Ментальная Арифметика



Давайте решим следующие примеры

№	1	2	3	4	5	6	7	8	9	10
а	1	4	2	2	7	1	5	7	8	6
б	5	5	2	1	2	8	3	1	1	3
Ответ										

№	1	2	3	4	5	6	7	8	9	10
а	5	1	7	4	6	2	2	8	6	5
б	2	3	2	5	2	7	2	1	1	3
Ответ										

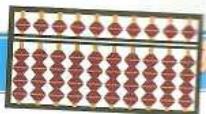
№	1	2	3	4	5	6	7	8	9	10
а	4	3	5	3	6	1	1	8	1	1
б	5	5	2	1	2	8	3	1	1	2
Ответ										

№	1	2	3	4	5	6	7	8	9	10
а	1	2	3	2	6	1	5	6	7	5
б	1	2	1	5	2	8	4	1	1	3
Ответ										

№	1	2	3	4	5	6	7	8	9	10
а	2	7	5	3	6	1	2	8	1	2
б	2	2	2	1	2	3	1	1	1	5
Ответ										



Ментальная Арифметика



No	1	2	3	4	5	6	7	8	9	10
a	5	5	2	1	2	8	3	1	1	3
b	1	4	2	2	7	1	5	7	8	6
Ответ										

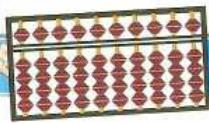
No	1	2	3	4	5	6	7	8	9	10
a	2	3	2	5	2	7	2	1	6	5
b	5	1	2	4	6	2	2	8	1	3
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	5	4	1	4	3	1	1	8	1	1
b	3	5	2	5	1	8	3	1	1	2
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	2	5	5	4	7	1	1	6	7	5
b	1	2	1	5	2	8	2	1	1	3
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	3	6	7	5	6	5	8	2	1	4
b	1	2	2	1	2	3	1	1	1	5
Ответ										





Ментальная Арифметика



№	1	2	3	4	5	6	7	8	9	10
a	1	2	2	2	2	1	5	7	5	1
b	5	2	1	1	5	2	1	1	1	3
c	1	5	5	1	2	5	3	1	1	5
Ответ										

№	1	2	3	4	5	6	7	8	9	10
a	1	2	2	2	6	1	5	6	2	5
b	5	5	1	5	2	6	3	1	1	2
c	2	2	1	1	1	2	1	1	1	2
Ответ										

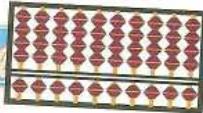
№	1	2	3	4	5	6	7	8	9	10
a	1	2	2	2	6	1	5	7	2	6
b	5	5	2	1	2	2	3	1	1	2
c	1	1	5	5	1	5	1	1	5	1
Ответ										

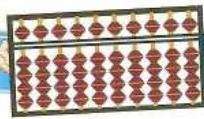
№	1	2	3	4	5	6	7	8	9	10
a	2	6	2	2	5	1	5	2	5	1
b	2	2	2	1	3	1	3	1	1	3
c	5	1	5	6	1	1	1	1	1	5
Ответ										



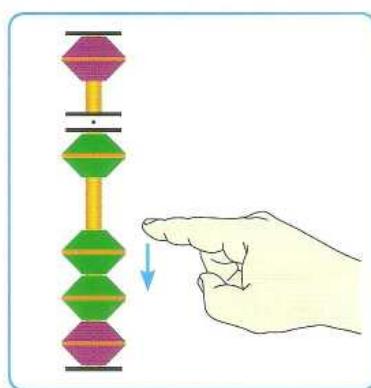
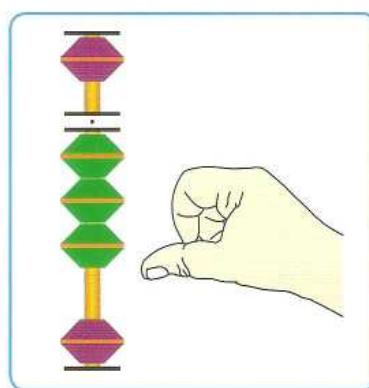
No	1	2	3	4	5	6	7	8	9	10	a	b	c	Omega
	1	2	2	2	3	1	5	6	2	5	1	1	1	1
	1	5	1	1	1	5	3	1	1	2	1	1	1	1
	1	1	5	1	1	1	5	3	1	1	2	1	1	1
	1	1	1	5	1	1	5	2	1	1	1	1	1	1

c	1	5	5	5	2	5	2	1	1	6	
b	1	2	2	1	2	2	1	1	1	2	
a	5	1	2	2	5	1	5	6	2	1	
Na	1	2	3	4	5	6	7	8	9	10	

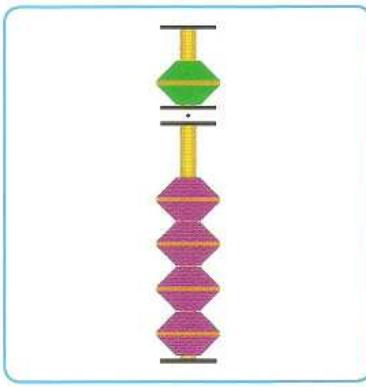
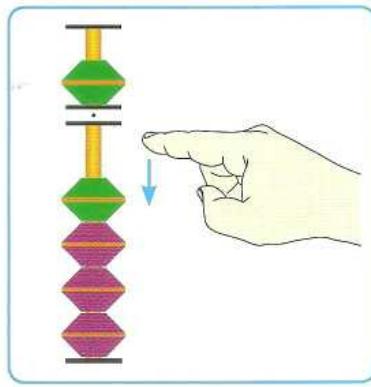
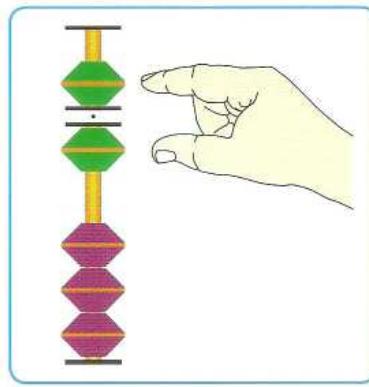




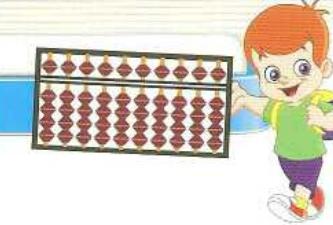
Пришло время научиться вычитать на Абакусе



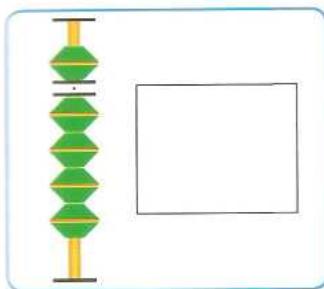
$$3 - 2 = \boxed{1}$$



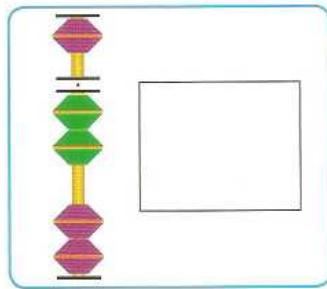
$$6 - 1 = \boxed{5}$$



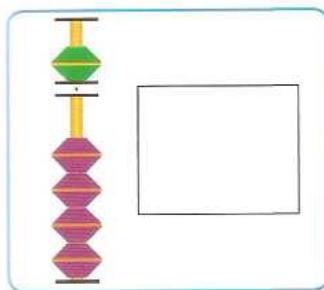
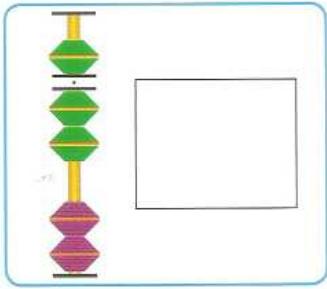
Решим примеры на вычитание



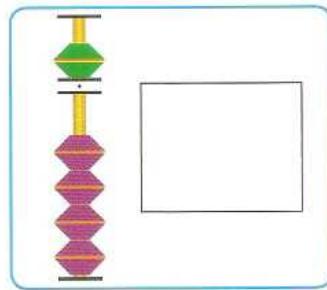
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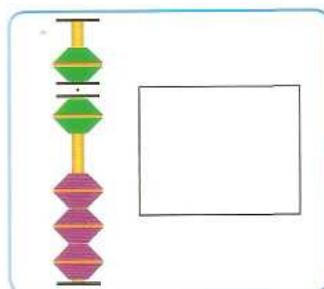
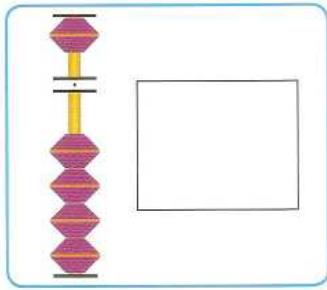
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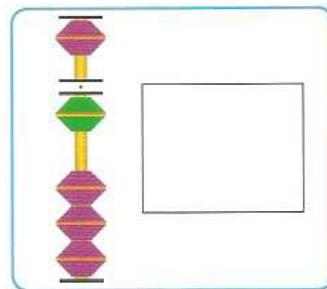
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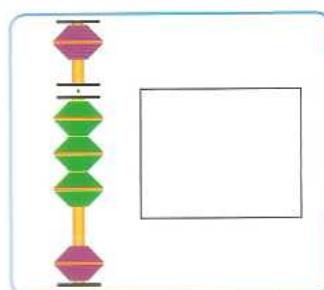
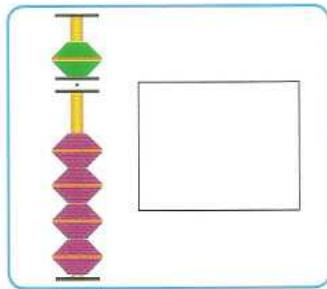
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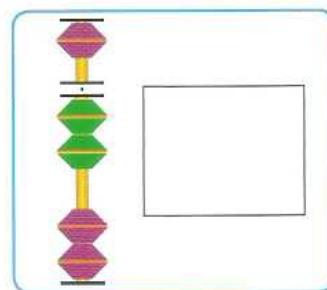
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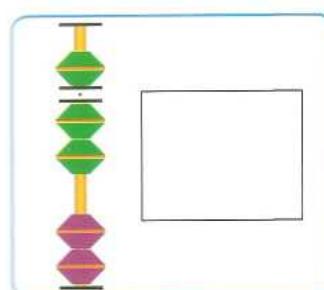
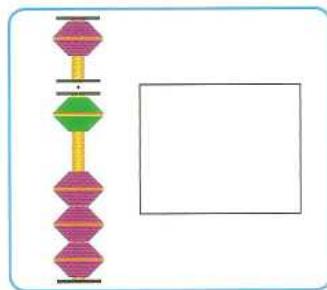
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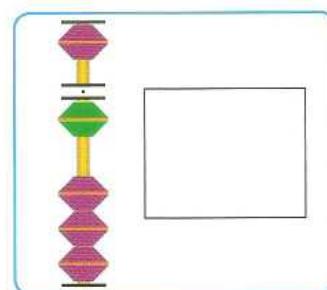
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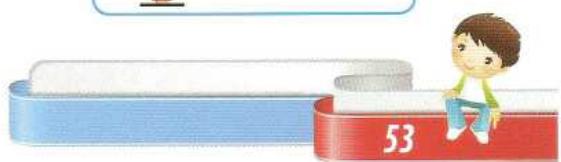
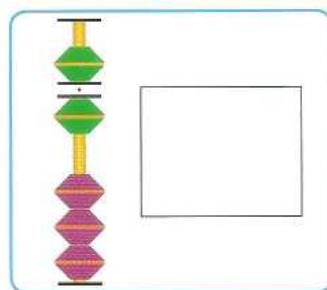
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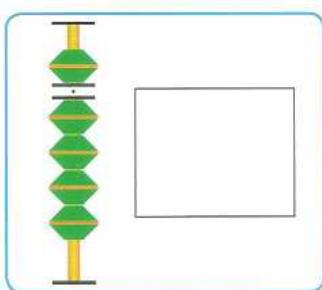
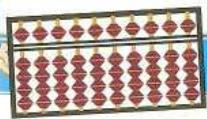


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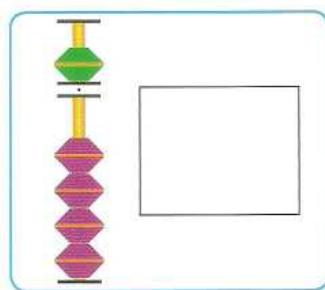


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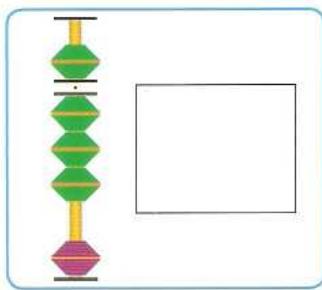
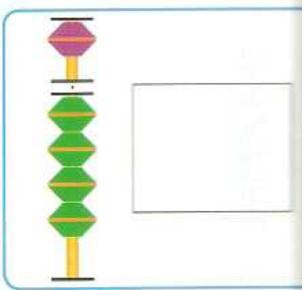




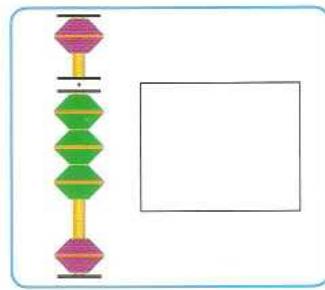
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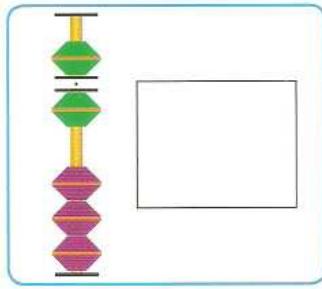
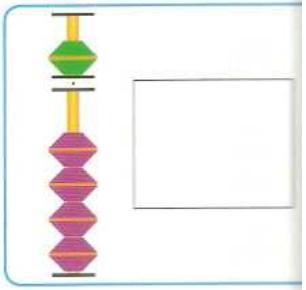
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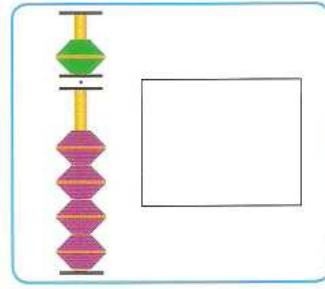
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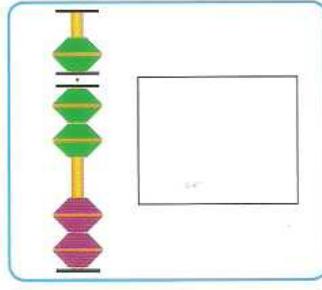
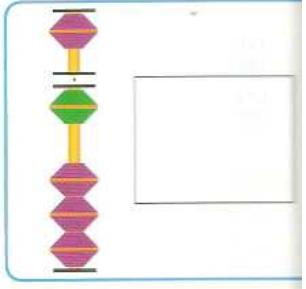
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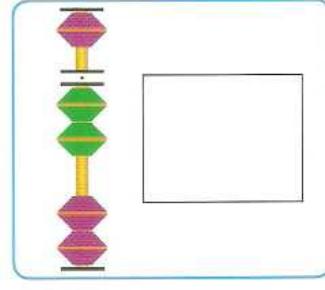
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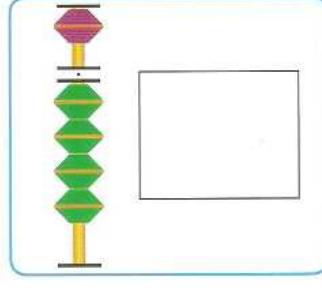
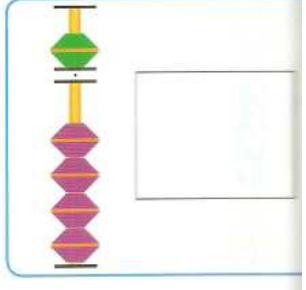
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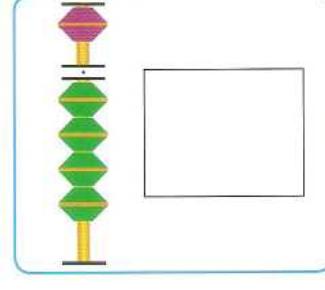
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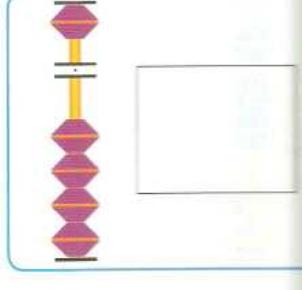
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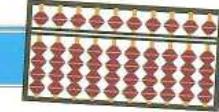


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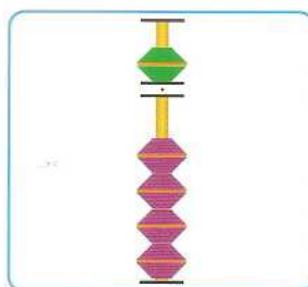
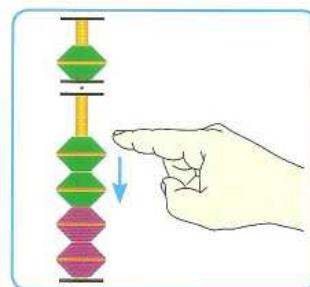
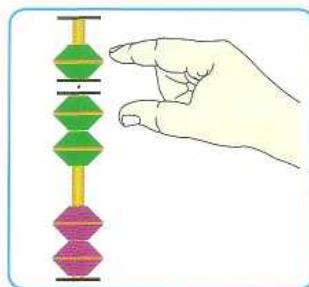
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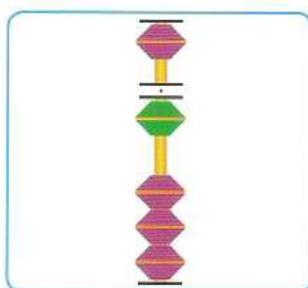
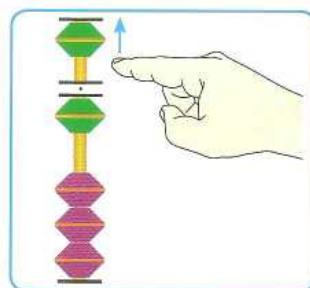
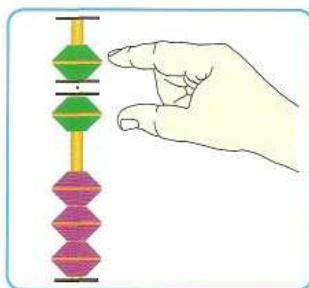


Запишем полученный результат

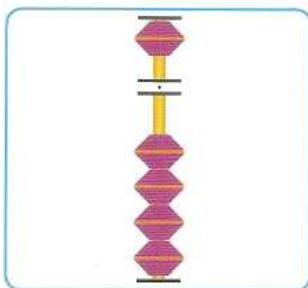
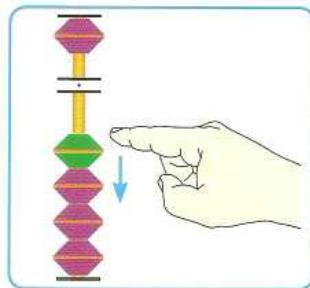
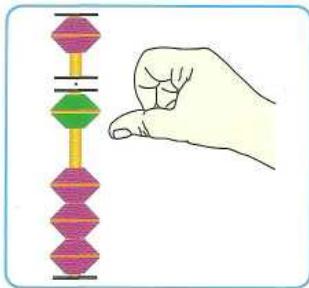
$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$



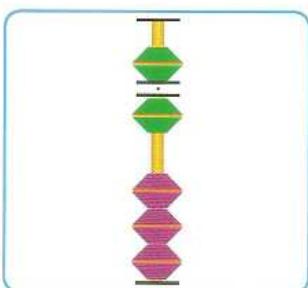
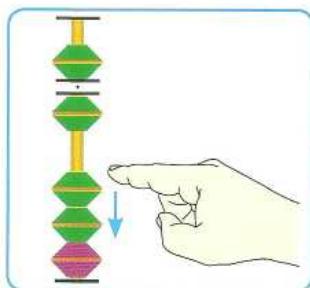
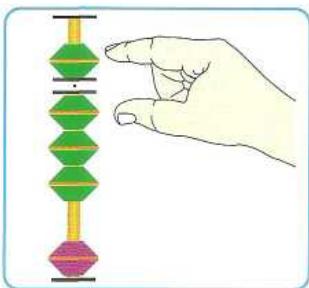
$$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$$



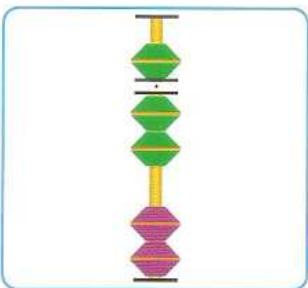
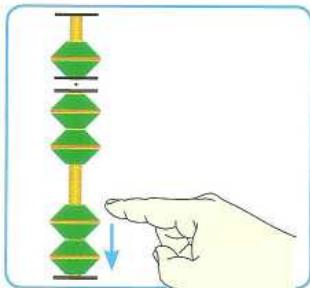
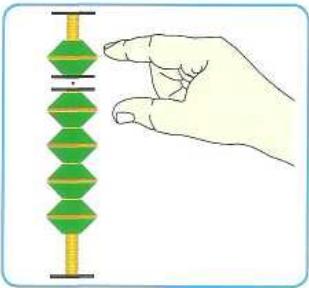
$$\begin{array}{r} 1 \\ - 1 \\ \hline \end{array}$$

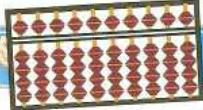


$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

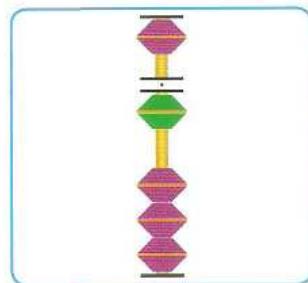
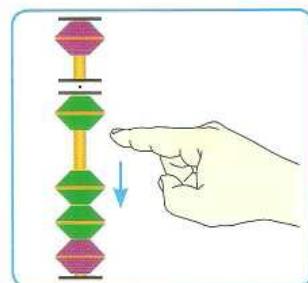
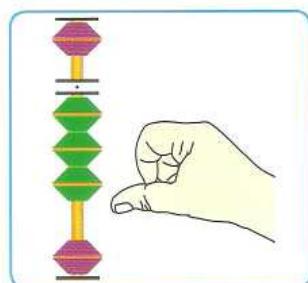


$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

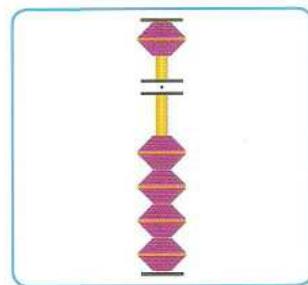
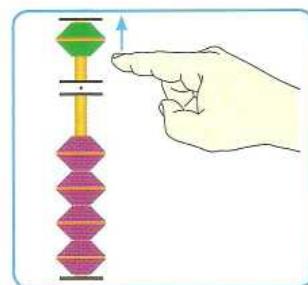
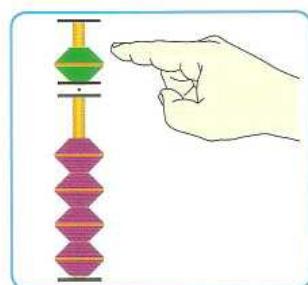




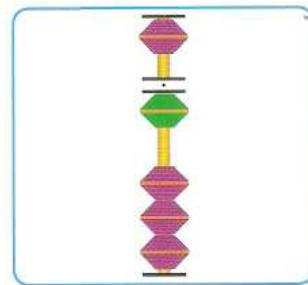
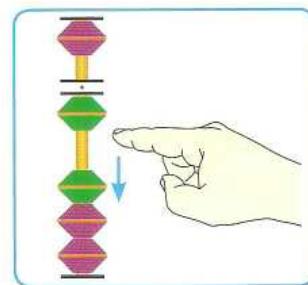
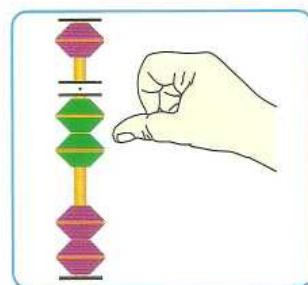
$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$



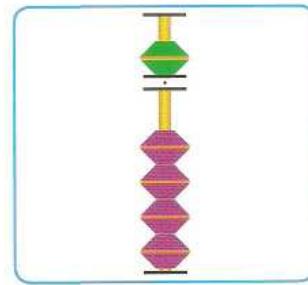
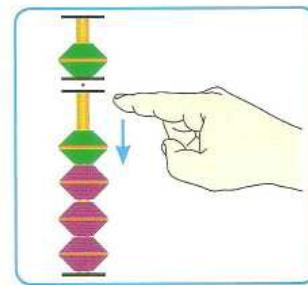
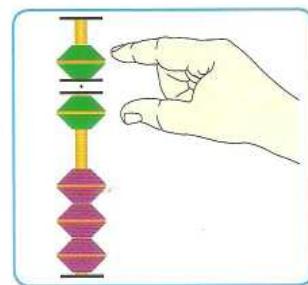
$$\begin{array}{r} 5 \\ - 5 \\ \hline \end{array}$$



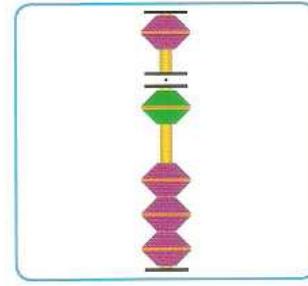
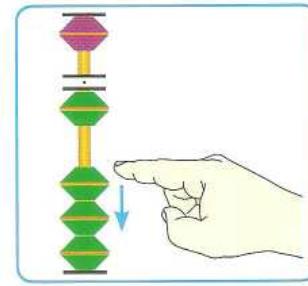
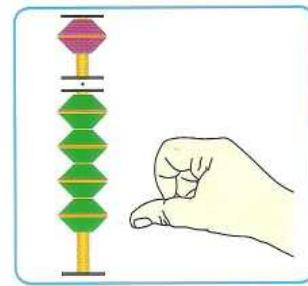
$$\begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$$

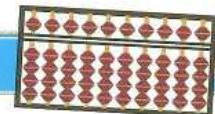


$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

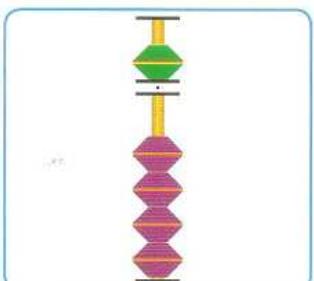
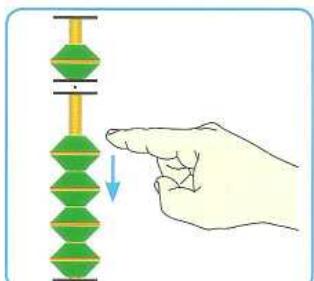
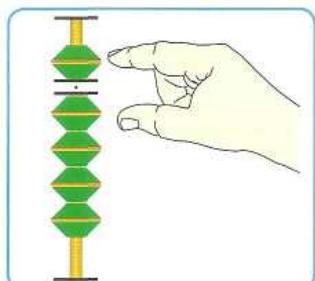


$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

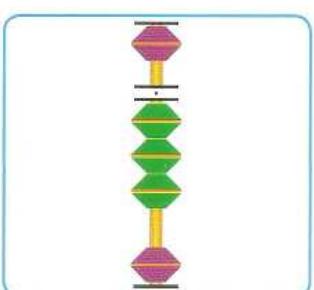
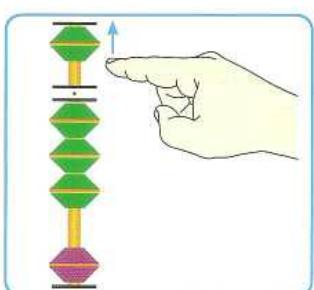
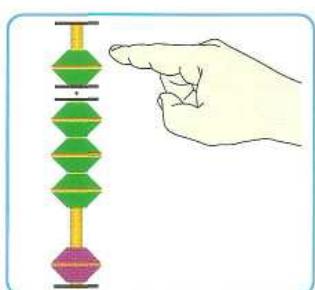




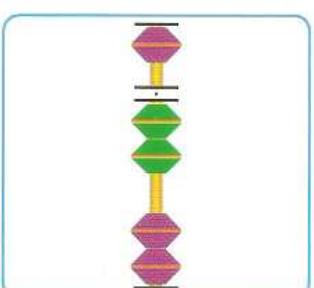
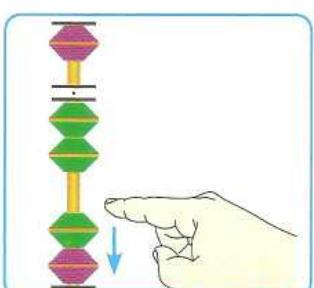
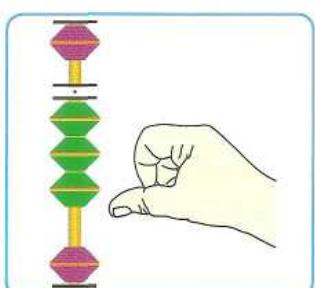
$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$



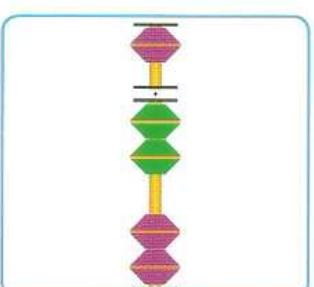
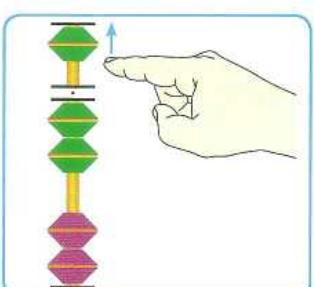
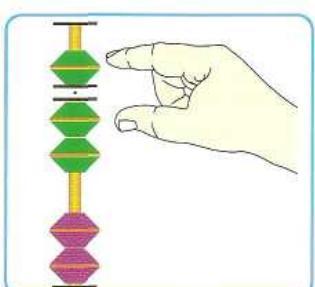
$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$



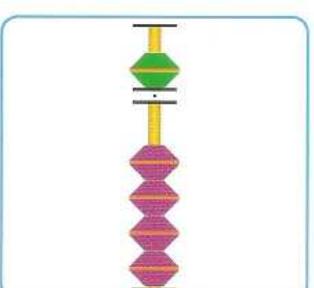
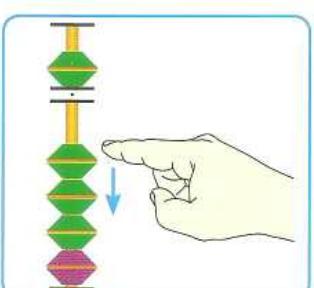
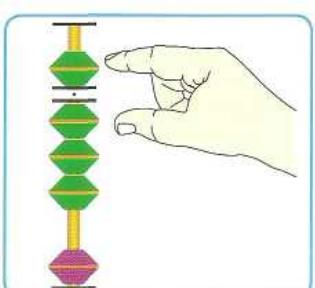
$$\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$$

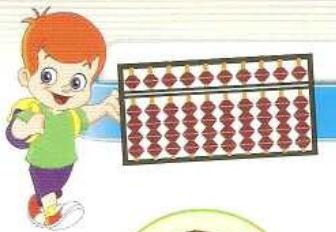


$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$



$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$





Решим примеры с помощью Абакуса

$$\begin{array}{ccc} \text{3} & - & \text{1} \\ \text{pear} & & \text{pear} \\ & = & \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{9} & - & \text{5} \\ \text{apple} & & \text{apple} \\ & = & \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{7} & - & \text{2} \\ \text{apple} & & \text{apple} \\ & = & \boxed{} \end{array}$$

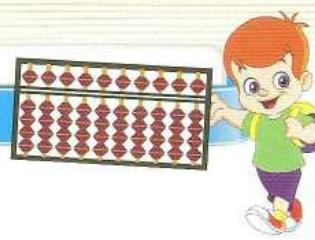
$$\begin{array}{ccc} \text{6} & - & \text{5} \\ \text{strawberry} & & \text{strawberry} \\ & = & \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{8} & - & \text{3} \\ \text{lemon} & & \text{lemon} \\ & = & \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{3} & - & \text{2} \\ \text{apple} & & \text{apple} \\ & = & \boxed{} \end{array}$$

$$\begin{array}{ccc} \text{4} & - & \text{1} \\ \text{apple} & & \text{apple} \\ & = & \boxed{} \end{array}$$





Решим примеры на вычитание

№	1	2	3	4	5	6	7	8	9	10
а	6	4	2	2	7	9	6	7	8	3
б	-1	-2	-2	-1	-2	-2	-5	-1	-2	-2
Ответ										

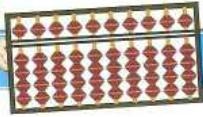
№	1	2	3	4	5	6	7	8	9	10
а	3	4	2	9	8	9	9	7	5	6
б	-1	-1	-1	-1	-3	-4	-2	-5	-5	-5
Ответ										

№	1	2	3	4	5	6	7	8	9	10
а	6	4	6	9	8	9	9	7	2	3
б	-5	-3	-1	-1	-2	-3	-4	-1	-2	-2
Ответ										

№	1	2	3	4	5	6	7	8	9	10
а	1	4	4	2	3	8	6	3	9	3
б	-1	-4	-2	-1	-2	-1	-5	-1	-2	-3
Ответ										

№	1	2	3	4	5	6	7	8	9	10
а	6	4	9	8	7	9	8	9	8	5
б	-6	-3	-9	-8	-6	-6	-6	-8	-5	-5
Ответ										





Ментальная Арифметика



<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	6	4	2	3	7	8	6	7	8	8
<i>б</i>	-5	-1	-1	-1	-2	-2	-1	-1	-5	-1
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	4	3	2	9	8	9	9	7	9	8
<i>б</i>	-1	-1	-1	-5	-2	-4	-3	-1	-5	-5
<i>Ответ</i>										

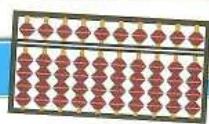
<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	7	3	6	7	8	9	4	8	3	2
<i>б</i>	-5	-3	-1	-1	-2	-3	-4	-1	-2	-2
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	1	9	3	2	4	9	6	3	7	8
<i>б</i>	-1	-4	-2	-1	-2	-1	-5	-1	-2	-3
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	6	3	9	8	7	8	9	9	5	9
<i>б</i>	-6	-3	-9	-8	-6	-6	-6	-1	-5	-5
<i>Ответ</i>										



Ментальная Арифметика

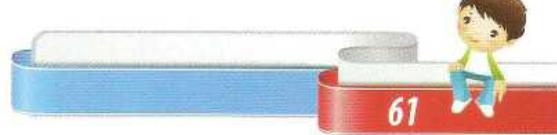


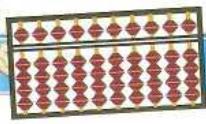
No	1	2	3	4	5	6	7	8	9	10
a	1	2	2	2	7	1	5	7	5	1
b	5	2	1	5	2	2	1	1	1	3
c	-5	-2	-1	-2	-7	-3	-1	-6	-6	-4
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	4	7	8	3	6	5	8	5	9	6
b	5	2	1	5	2	2	1	2	-1	3
c	-4	-2	-5	-3	-7	-5	-1	-6	-1	-4
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	4	5	2	2	7	2	8	1	2	5
b	5	2	6	7	1	2	1	1	1	3
c	-9	-5	-8	-2	-7	-3	-5	-1	-2	-2
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	8	5	7	3	7	2	6	6	2	5
b	1	4	1	5	2	2	1	1	-1	3
c	-5	-2	-1	-2	-6	-4	-2	-6	-1	-1
Ответ										





Ментальная Арифметика

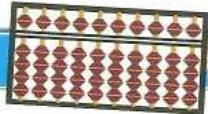


<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>a</i>	4	5	5	4	7	2	6	8	7	6
<i>b</i>	5	2	1	5	2	2	1	1	1	3
<i>c</i>	-5	-2	-1	-2	-7	-3	-1	-6	-6	-4
<i>Ответ</i>										

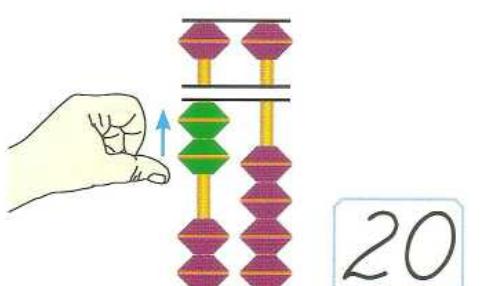
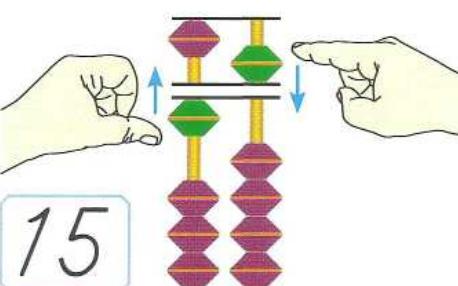
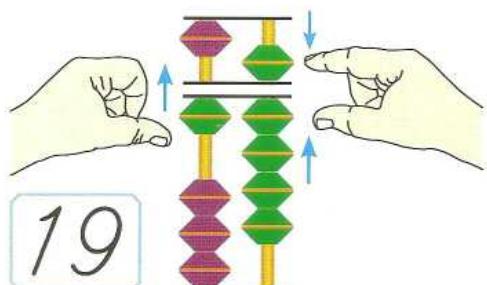
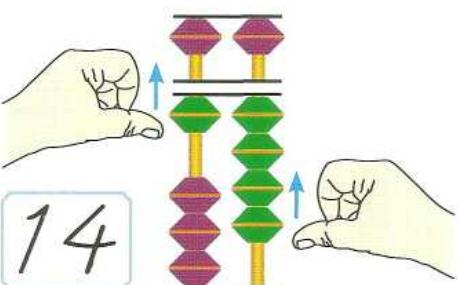
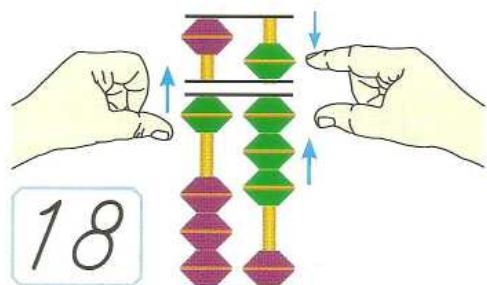
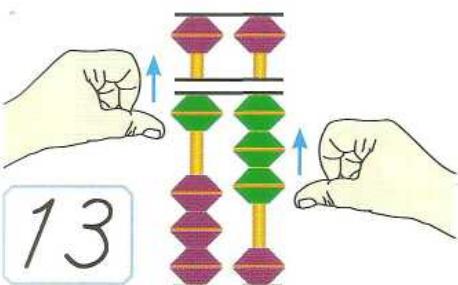
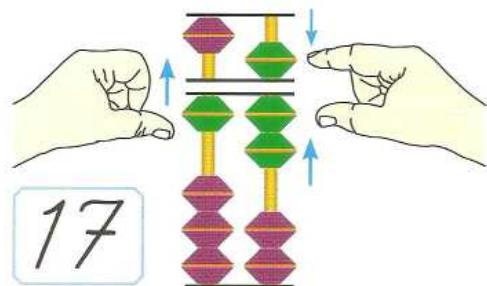
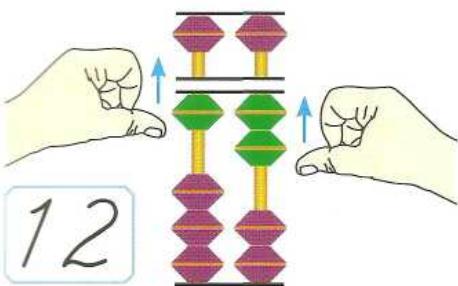
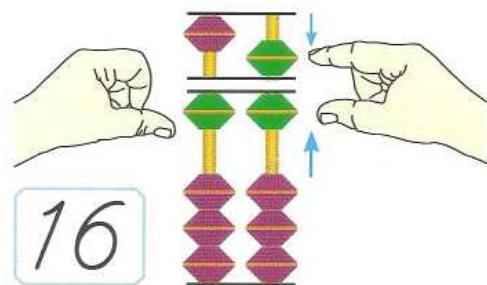
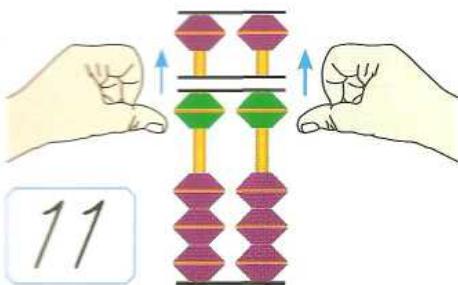
<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>a</i>	1	6	6	4	6	5	8	5	9	5
<i>b</i>	8	2	1	5	3	4	1	3	-2	3
<i>c</i>	-4	-2	-5	-3	-7	-5	-1	-6	-1	-3
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>a</i>	4	5	2	1	7	2	8	8	3	6
<i>b</i>	5	4	7	7	2	2	1	1	1	3
<i>c</i>	-9	-5	-8	-2	-7	-2	-5	-1	-2	-2
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>a</i>	7	5	7	2	7	2	8	7	3	5
<i>b</i>	1	3	2	5	2	2	1	1	-1	4
<i>c</i>	-5	-2	-1	-2	-5	-4	-2	-6	-1	-1
<i>Ответ</i>										



Теперь мы познакомимся с двухзначными числами
с помощью Абакуса



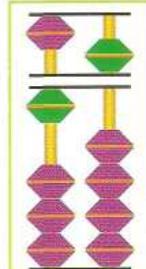
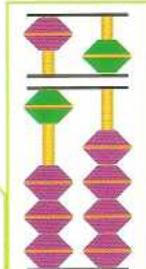


Разукрасим бусинки и запишем числа

11



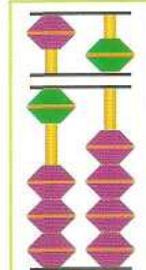
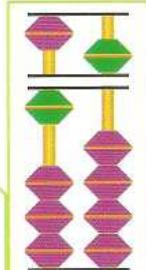
19



16



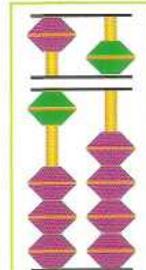
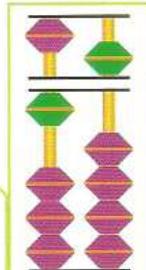
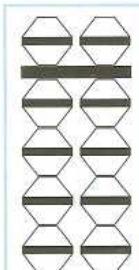
13



20



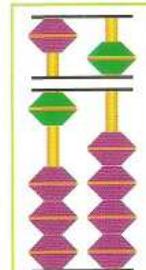
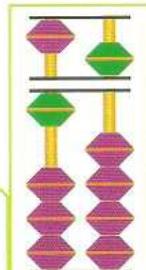
17



12



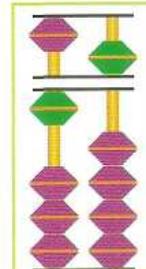
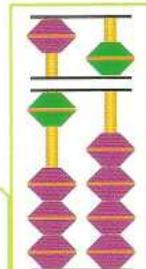
14

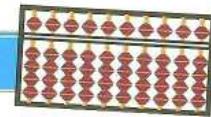


15

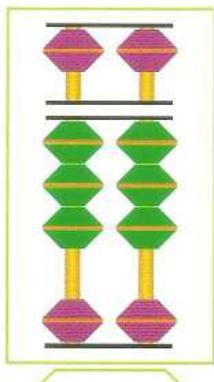
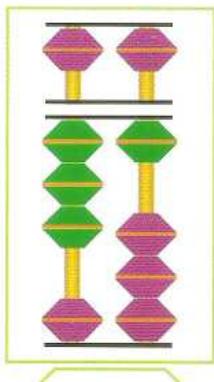
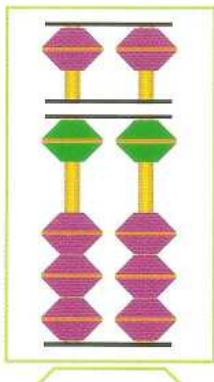
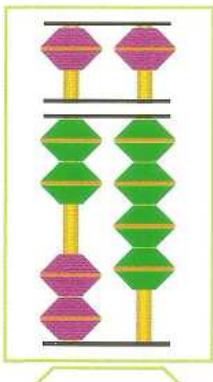
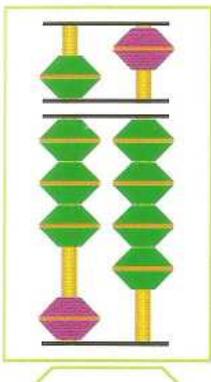
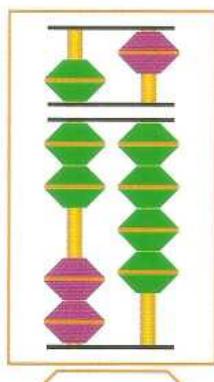
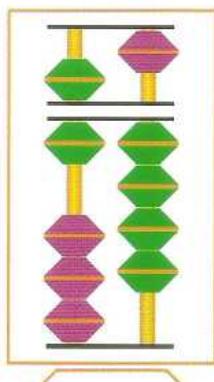
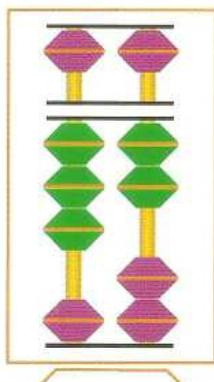
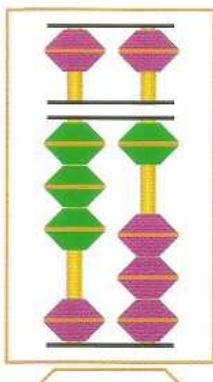
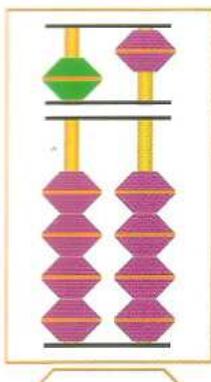
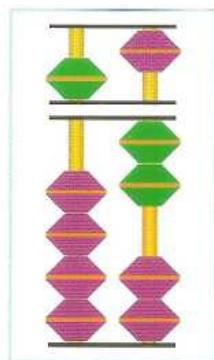
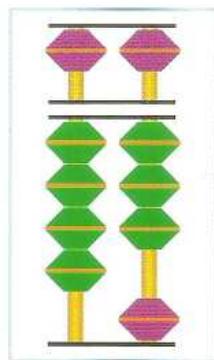
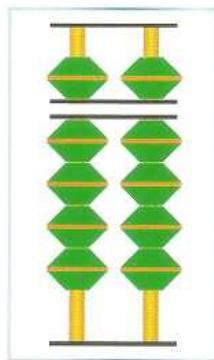
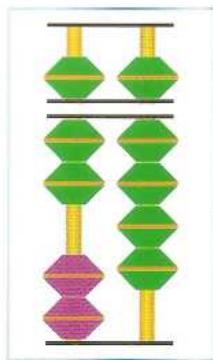
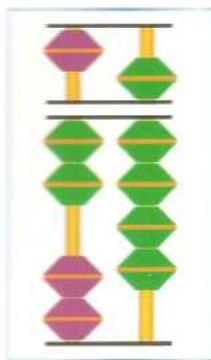


18



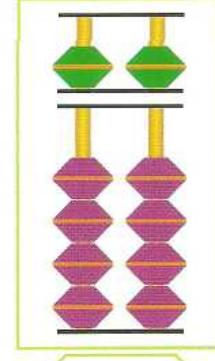
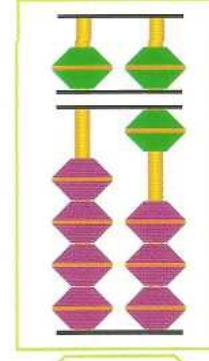
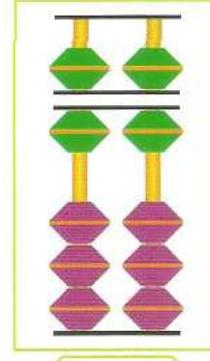
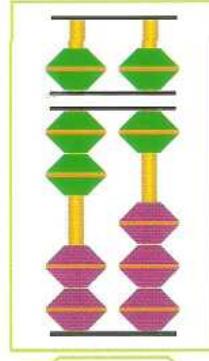
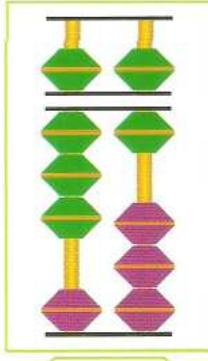
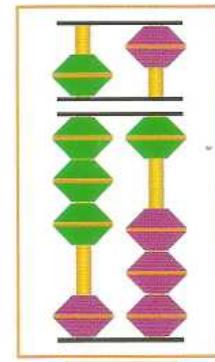
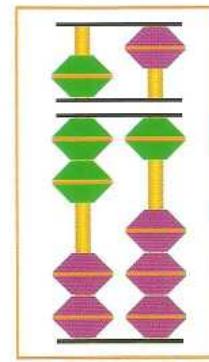
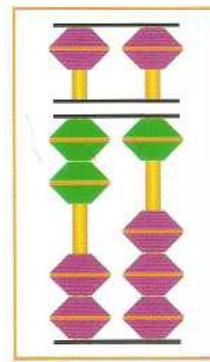
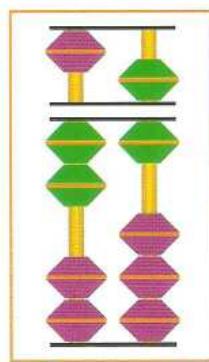
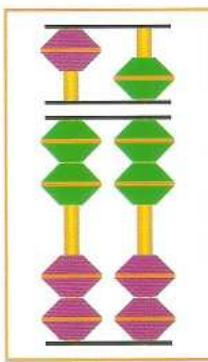
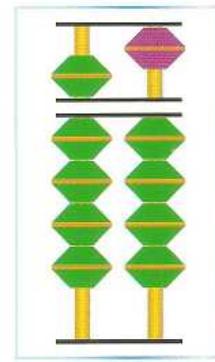
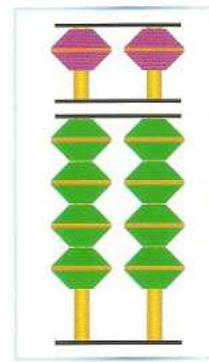
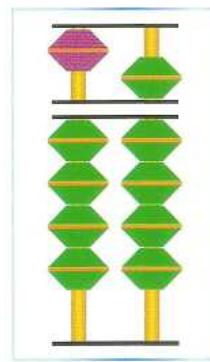
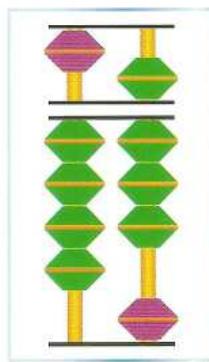
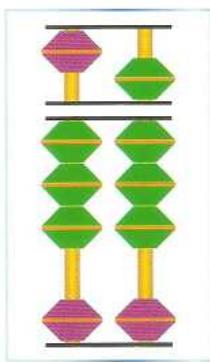


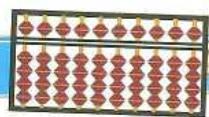
Запишем числа, показанные на Абакусе





Ментальная Арифметика





Запишем числа, показанные на Абакусе

No	1	2	3	4	5	6	7	8	9	10
a	21	14	52	42	57	21	35	17	28	16
б	25	35	12	51	32	68	13	21	51	23
Ответ										

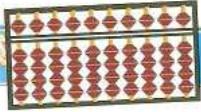
No	1	2	3	4	5	6	7	8	9	10
a	52	81	57	24	16	12	32	18	26	85
б	22	13	42	65	82	17	52	61	21	13
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	34	13	25	43	16	51	61	28	11	21
б	55	15	22	51	32	48	23	21	11	22
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	81	22	43	22	16	21	15	26	17	25
б	11	12	51	15	22	58	14	11	31	23
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	32	17	45	13	16	31	22	68	71	82
б	52	52	52	21	32	13	51	11	11	15
Ответ										





Ментальная Арифметика



<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	21	34	52	22	17	71	55	27	68	26
<i>б</i>	65	55	12	21	12	18	13	61	11	53
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	15	51	47	24	26	12	32	18	26	15
<i>б</i>	62	33	52	15	22	17	52	81	51	73
<i>Ответ</i>										

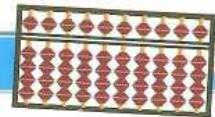
<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	64	23	35	13	36	21	11	68	21	21
<i>б</i>	25	65	52	61	52	28	13	21	11	72
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	21	12	63	72	86	13	55	16	27	35
<i>б</i>	51	12	11	15	12	81	44	61	21	53
<i>Ответ</i>										

<i>№</i>	1	2	3	4	5	6	7	8	9	10
<i>а</i>	32	17	25	53	66	31	62	68	21	12
<i>б</i>	52	12	22	31	22	13	31	21	51	15
<i>Ответ</i>										



Ментальная Арифметика

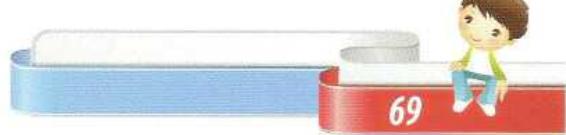


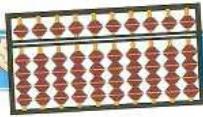
No	1	2	3	4	5	6	7	8	9	10
a	15	21	72	62	25	61	15	56	52	11
б	11	22	12	11	12	12	11	21	21	22
c	11	55	15	25	12	15	12	21	11	56
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	21	62	22	12	33	51	65	16	22	35
б	21	15	51	11	51	15	13	61	51	12
c	51	11	25	11	15	12	11	11	21	51
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	22	21	11	22	16	32	76	26	22	26
б	16	16	13	12	12	12	12	11	22	51
c	11	61	15	55	11	15	11	11	55	11
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	12	66	12	22	65	21	55	22	15	11
б	11	11	12	11	23	12	12	15	11	22
c	15	11	65	16	11	11	11	11	12	16
Ответ										





Ментальная Арифметика



No	1	2	3	4	5	6	7	8	9	10
a	15	21	12	62	35	11	25	16	12	21
b	21	22	12	11	12	12	21	11	11	62
c	11	55	15	15	52	15	52	11	11	16
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	61	22	72	22	63	21	35	66	32	15
b	11	65	11	11	11	25	13	11	11	22
c	11	11	15	51	15	52	51	11	51	61
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	72	11	21	12	26	12	26	26	32	16
b	16	76	23	12	22	12	52	11	52	11
c	11	11	55	25	51	15	21	11	15	11
Ответ										

No	1	2	3	4	5	6	7	8	9	10
a	12	26	12	62	75	11	65	12	25	11
b	11	21	12	11	13	12	22	15	21	12
c	15	51	15	16	11	71	11	11	52	26
Ответ										

