

Lesson-5



Addition
(upto 999)

Guwahati
27-03-2019

Respected *Deuta*

Pranam. We are fine. How are you? *Bhaity* and I are studying hard. We are waiting to visit *Kokadeuta* and *Aita's* place along with you during Bihu. The other day I went to the market with *Ma*. *Ma* purchased a *dhoti* for *Koka*, one *chador* for *Aita*, a watch for *Pehi* and a pair of trousers for *Khura* to give them as gift on Bohag Bihu.

I am eager to meet you soon.

Your loving daughter
Sonali

Sonali's father serves in the army. He was very happy to receive Sonali's letter. He is coming home during Bohag Bihu. He has got a few days leave from duty on account of Bohag Bihu.

Let us see what Sonali's mother purchased and at what price.

A *dhoti* for *Koka* = ₹ 200

A *chador* for *Aita* = ₹ 150

A watch for *Pehi* = ₹ 425

A pair of trousers for *Khura* = ₹ 205



Now let us look at how much money Sonali's mother has spent

Total expenditure for the *dhoti* and the *chadar*



Item	H	T	O
Price of the <i>dhoti</i>	2	0	0
Price of the <i>chador</i>	1	5	0
Total expenditure	3	5	0



Rupees

Rupees

Rupees

Let us see how it is done

First, add the ones = 0 ones + 0 ones + 0 ones = 0

Second, add the tens = 0 ten + 5 tens = 5 tens = 50

Thirdly, add the hundreds = 2 hundred + 1 hundred = 3 hundred = 300

That is $300 + 50 + 0 = 350$

Hence $\text{₹ } 200 + \text{₹ } 150 = \text{₹ } 350$

Therefore, total expenditure of *dhoti* and *chador* is ₹ 350.

Find out the total expenditure of the *chadar* and the watch.



Item	H	T	O
Price of the <i>chador</i>			
Price of Watch			
Total expenditure			



Rupees

Rupees

Rupees

Now let us find out how much money Sonali's mother has spent for the watch and the trouser

Item	H	T	O	
Price of the watch	4	2	5	Rupees
Price of the trouser	2	0	5	Rupees
Total expenditure	6	3	0	Rupees

First task : Add the ones
 $5 \text{ Ones} + 5 \text{ Ones} = 10 \text{ Ones} = 1 \text{ Ten}$
 1 will move to the place of tens and 0 will be in the place of ones.

Second task : Add the tens
 $1 \text{ Ten} + 2 \text{ Tens} + 0 \text{ Ten} = 3 \text{ Tens}$
 Therefore 3 will be in the place of tens

Third task : Add the hundreds
 $4 \text{ hundreds} + 2 \text{ hundreds} = 6 \text{ hundreds}$ and it will be in the place of hundreds

Hence total expenditure : ₹ 425 + ₹ 205 = ₹ 630

Sonali's mother also purchased some *rosagulla* for ₹ 168 and some *perra* for ₹ 120. Find out how much money has been spent to purchase the sweets.

Item	H	T	O	
<i>Rosagulla</i>				Rupees
<i>Perra</i>				Rupees
Total				Rupees



Find out what is the total expenditure of the *chador*, the trouser, the *dhoti* and the watch.

Item	H	T	O	
<i>Chador</i>	1	5	0	Rupees
Pant	2	0	5	Rupees
<i>Dhoti</i>	2	0	0	Rupees
Watch	4	2	5	Rupees
Total				Rupees



Add

(a)
$$\begin{array}{r} 120 \\ +30 \\ \hline \end{array}$$

(b)
$$\begin{array}{r} 115 \\ +74 \\ \hline \end{array}$$

(c)
$$\begin{array}{r} 171 \\ +26 \\ \hline \end{array}$$

(d)
$$\begin{array}{r} 155 \\ +44 \\ \hline \end{array}$$

(e)
$$\begin{array}{r} 135 \\ +20 \\ \hline \end{array}$$

(f)
$$\begin{array}{r} 201 \\ +73 \\ \hline \end{array}$$

(g)
$$\begin{array}{r} 315 \\ +23 \\ \hline \end{array}$$

(h)
$$\begin{array}{r} 315 \\ +272 \\ \hline \end{array}$$

(i)
$$\begin{array}{r} 412 \\ +232 \\ \hline \end{array}$$

(j)
$$\begin{array}{r} 527 \\ +371 \\ \hline \end{array}$$

(k)
$$\begin{array}{r} 230 \\ +162 \\ \hline \end{array}$$

(l)
$$\begin{array}{r} 312 \\ +175 \\ \hline \end{array}$$


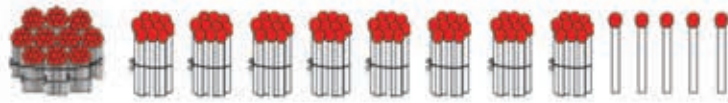
(m)
$$\begin{array}{r} 538 \\ +241 \\ \hline \end{array}$$

(n)
$$\begin{array}{r} 426 \\ +312 \\ \hline \end{array}$$

(o)
$$\begin{array}{r} 434 \\ +153 \\ \hline \end{array}$$


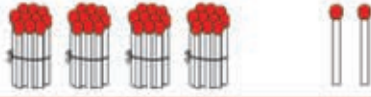
Let us add with the help of bundle of sticks and loose sticks

$110 + 75 = ?$

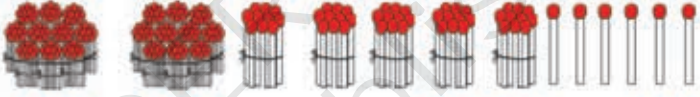

100=	1 H	1 T	0 O	
+75=	0 H	7 T	5 O	
185=	1 H	8 T	5 O	
110 + 75 = 185 = one hundred and eighty five				

Add with the help of bundle of sticks and the loose sticks


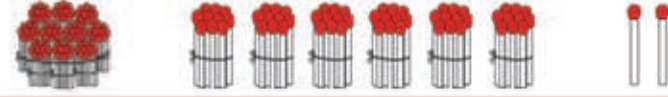
125 + 42 = ?

125=	1 H	2 T	5 O	
+42=		4 T	2 O	

256 + 223 = ?

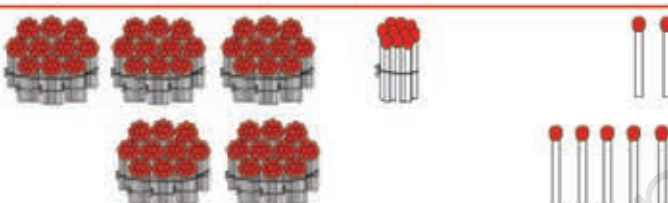
				
				

230 + 162 = ?

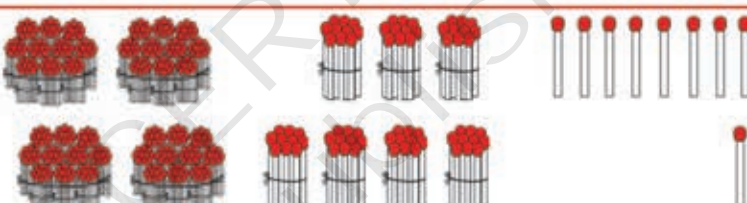
				
				

Add with the help of bundle of sticks and the loose sticks

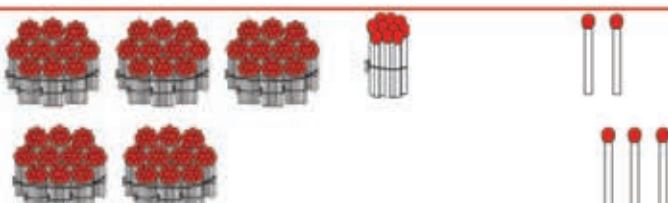
$$312 + 205 = ?$$

$$238 + 241 = ?$$

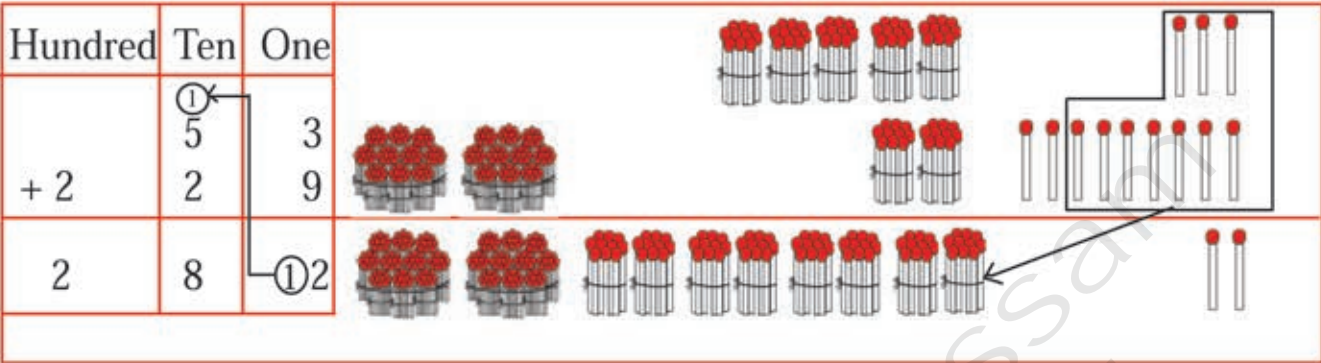
				

$$312 + 203 = ?$$

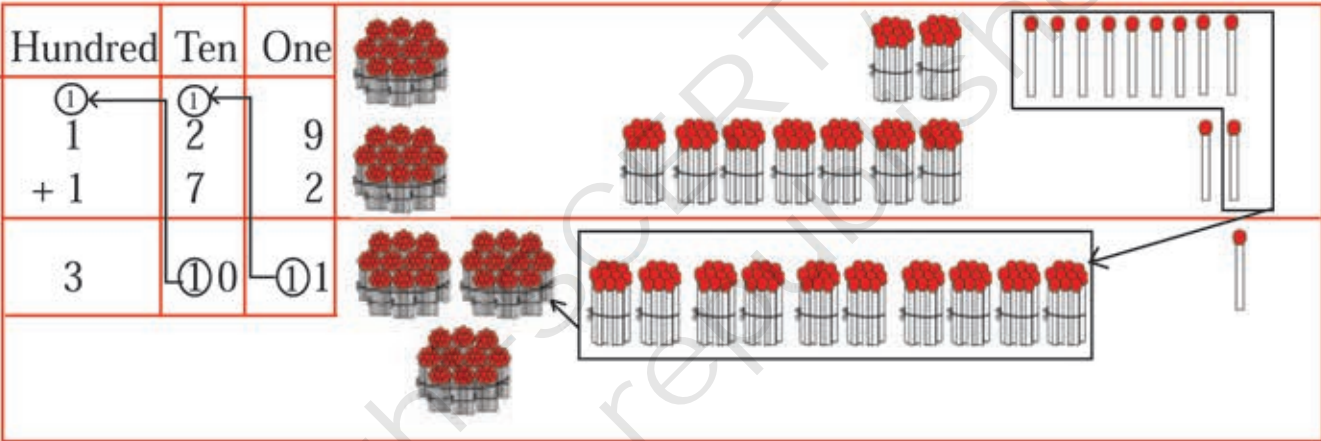
				

Add with the help of bundle of sticks and the loose sticks

53 + 229 = ?

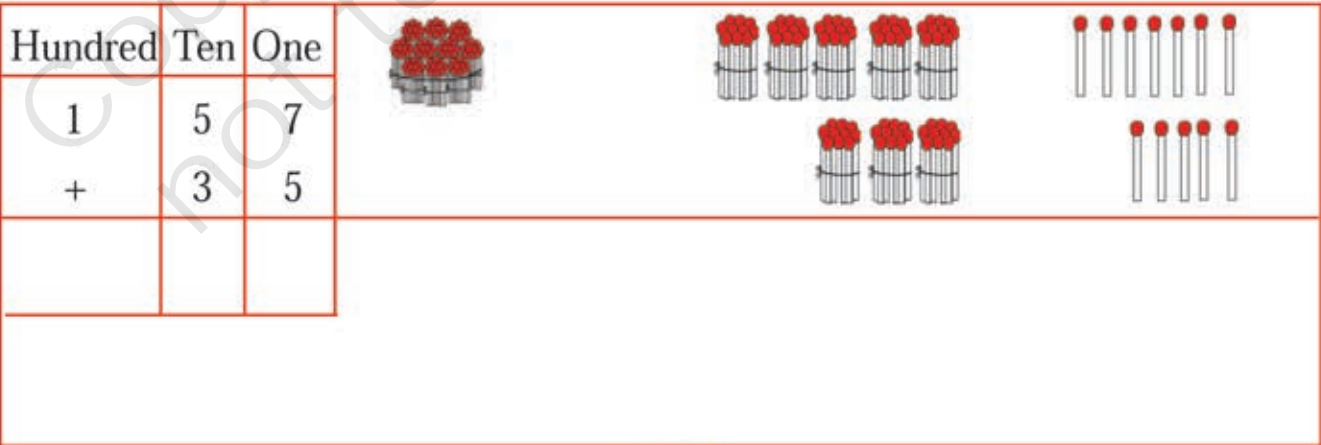


129 + 172 = ?



Add with the help of bundle of sticks and the loose sticks


157 + 35 = ?



Add with the help of bundle of sticks and the loose sticks

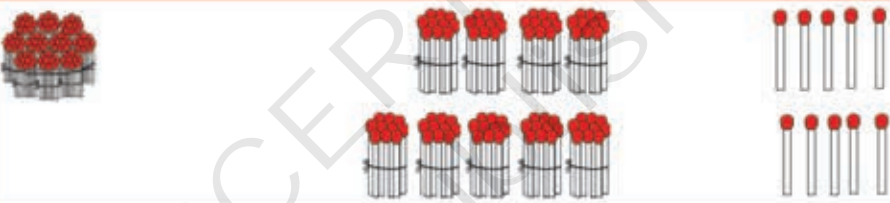
$$79 + 102 = ?$$

Hundred	Ten	One
	7	9
+1	0	2




$$145 + 55 = ?$$

Hundred	Ten	One
1	4	5
+	5	5



$$167 + 226 = ?$$

Hundred	Ten	One
1	6	7
+ 2	2	6



Add

$$\begin{array}{r} (a) \quad 148 \\ +144 \\ \hline \end{array}$$

$$\begin{array}{r} (b) \quad 268 \\ +126 \\ \hline \end{array}$$

$$\begin{array}{r} (c) \quad 236 \\ +148 \\ \hline \end{array}$$

$$\begin{array}{r} (d) \quad 275 \\ +119 \\ \hline \end{array}$$

$$\begin{array}{r} (e) \quad 312 \\ +278 \\ \hline \end{array}$$

$$\begin{array}{r} (f) \quad 341 \\ +235 \\ \hline \end{array}$$

$$\begin{array}{r} (g) \quad 358 \\ +227 \\ \hline \end{array}$$

$$\begin{array}{r} (h) \quad 332 \\ +248 \\ \hline \end{array}$$

The number of students who would compete in different sports events in the Annual Sports Competition of a district are 124 students for the running race, 117 students for the shot put, 166 students for the three legged running race and 254 students for the relay race.

Now let us add and see

- (a) How many students came to compete in the running race and the shot put?



- (b) How many students came to compete in the three legged running race and the relay race?



- (c) How many students came to compete in the running race and the three legged running race?



While coming home for Bohag Bihu, Sonali's father travelled 355 km by bus from Jonai to Tezpur. The next day he again travelled 174 km from Tezpur to Guwahati. How many kilometres did he travel altogether?

Let us see

From Jonai to Tezpur = 355 kilometres

From Tezpur to Guwahati = 174 kilometres

Total distance travelled by Sonali's father = $355 \text{ km} + 174 \text{ km}$
 $= 529 \text{ km}$



Let us see how we have arrived at the answer

	H	T	O	
From Jonai to Tezpur	3	5	5	kilometres
From Tezpur to Guwahati	1	7	4	kilometres
Total distance	5	2	9	kilometres

First task : Add the numbers in ones place
 $5 \text{ ones} + 4 \text{ ones} = 9 \text{ ones}$

Second task : Add the numbers in tens place
 $5 \text{ tens} + 7 \text{ tens} = 12 \text{ tens} = 10 \text{ tens} + 2 \text{ tens} = 1 \text{ hundred} + 2 \text{ tens}$
 1 hundred will go to the place of hundred (as shown) and
 2 tens will be in the place of tens.

Third task : Now add the numbers in hundreds place
 $1 \text{ hundred} + 3 \text{ hundreds} + 1 \text{ hundred} = 5 \text{ hundreds}$



Solve the problems

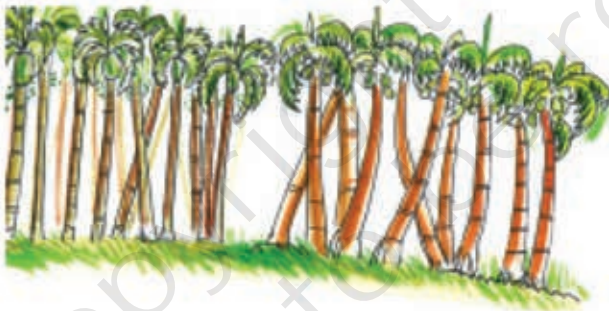
- In a garden there are 123 red roses and 195 yellow roses. How many roses are there in the garden altogether?



- 171 boys and 159 girls participated in a running race competition. How many children participated in the competition altogether?



- At Rophida's village there are 290 betel nut trees and 146 coconut trees. How many betel nut and coconut trees are there in the village altogether?



- Mohan sold 293 eggs on Monday and 318 eggs on Tuesday. How many eggs were sold altogether?



- Ronghan collected 154 mangoes and Kakoli collected 128 mangoes. How many mangoes did they collect altogether?



- Rohila has sold 360 *kowai* fishes and Konpai has sold 240 *puthi* fishes in the market. How many fishes have been sold altogether?



Add

(a)
$$\begin{array}{r} 173 \\ + 152 \\ \hline \end{array}$$

(b)
$$\begin{array}{r} 244 \\ + 273 \\ \hline \end{array}$$

(c)
$$\begin{array}{r} 356 \\ + 262 \\ \hline \end{array}$$

(d)
$$\begin{array}{r} 364 \\ + 352 \\ \hline \end{array}$$

(e)
$$\begin{array}{r} 462 \\ + 275 \\ \hline \end{array}$$

(f)
$$\begin{array}{r} 594 \\ + 324 \\ \hline \end{array}$$

(g)
$$\begin{array}{r} 437 \\ + 190 \\ \hline \end{array}$$

(h)
$$\begin{array}{r} 642 \\ + 285 \\ \hline \end{array}$$

(i)
$$\begin{array}{r} 153 \\ + 129 \\ \hline \end{array}$$

(j)
$$\begin{array}{r} 238 \\ + 127 \\ \hline \end{array}$$

(k)
$$\begin{array}{r} 317 \\ + 239 \\ \hline \end{array}$$

(l)
$$\begin{array}{r} 457 \\ + 246 \\ \hline \end{array}$$

Solve the problems

- Nilam's father bought *barali* fish for ₹ 735 and *shol* fish for ₹ 268 on the day of *Uruka* of Magh Bihu. How much money did he spend to buy the fishes?



- One vendor sold 347 cabbages and 258 cauliflowers in the market. How many vegetables did he sell altogether?



- During Magh Bihu, Ram's mother prepared 168 *pithas* and 275 *laddus*. How many *pithas* and *laddus* did she prepare altogether?



- In a library there are 264 story books and 178 picture books. How many books are there in the library altogether?



Geetika purchased carrots for ₹ 25 and brinjal for ₹ 22 from Ajad's shop. When asked, how much money was to be paid altogether, Ajad said that

25 is equal to 20 and 5

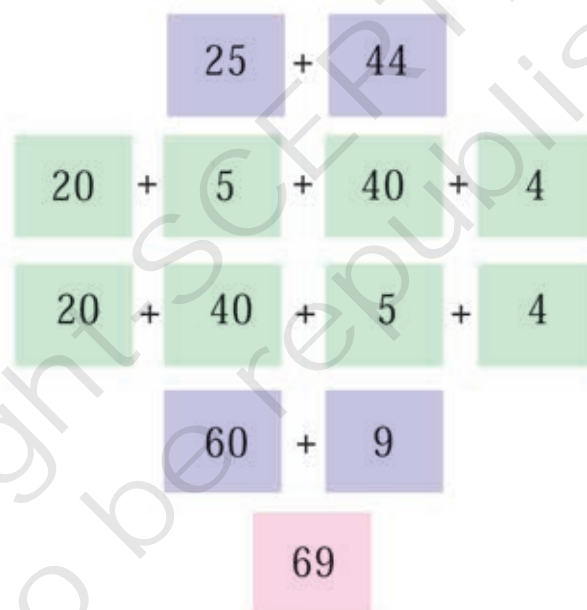
22 is equal to 20 and 2

Therefore, by adding ₹ 25 and ₹ 22
we get ₹ 47

How could Ajad find
out the total so
quickly? Let me also
try to add 25 and 44...



Let us see how Geetika has done the calculation



You can find out the total of the given numbers in the following way also

$$\begin{aligned}
 34 + 52 &= 30 + 50 + 4 + 2 \\
 &= 80 + 4 + 2 \\
 &= 80 + 6 \\
 &= 86
 \end{aligned}$$



Add

(a) $71 + 15 = 70 + 1 + 10 + 5$

$$= \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

$$= \boxed{} + \boxed{}$$

$$= \boxed{}$$

(b) $98 + 41 = 90 + 8 + 40 + 1$

$$= \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

$$= \boxed{} + \boxed{}$$

$$= \boxed{}$$



I can add using an easier method than this one. Now, observe my method.

$$58 + 21 = \boxed{58} + \boxed{20} + \boxed{1}$$

$$= \boxed{78} + \boxed{1}$$

$$= \boxed{79}$$

Wow! I like your method. Let us do the following sums using your method.



$$44 + 32 = \boxed{} + \boxed{} + \boxed{}$$

$$= \boxed{} + \boxed{}$$

$$= \boxed{}$$

$$55 + 15 = \boxed{} + \boxed{} + \boxed{}$$

$$= \boxed{} + \boxed{}$$

$$= \boxed{}$$

$$63 + 22 = \boxed{} + \boxed{} + \boxed{}$$

$$= \boxed{} + \boxed{}$$

$$= \boxed{}$$

Let us create a few mathematical problems:

In the garden of a school, 30 mango saplings and 20 litchi saplings have been planted. Let us create few mathematical problems using this statement.



**Kabir
created**

In the garden of a school, 30 mango saplings and 20 litchi saplings have been planted. How many saplings has been planted in total?

**Seema
created**

In the garden of a school, 30 mango saplings and 20 litchi saplings have been planted. Which plant has been planted more and how more has been planted?

**Manjit
created**

In the garden of a school, 30 mango saplings and 20 litchi saplings have been planted. Which plant has been planted less and how less has been planted?

**Joseph
created**

In the garden of a school, 30 mango saplings and 20 litchi saplings have been planted. If in the garden, there is place for planting a total of 70 plants in the garden, then, how many plants could be planted in the remaining portion of the garden?

Read the following and create a mathematical problem on your own.

A parrot has eaten 14 Starfruit and 12 guavas from Amal's garden.

Instruction to the teachers: The teacher will encourage learners to write problems like this.