2. By Counting in 10s

(a)
$$34 + 27$$

= $34 + 10 + 10 + 7$
= $54 + 7$
= 61

(b)
$$753 + 45$$

= $753 + 10 + 10 + 10 + 10 + 5$
= $793 + 5$
= 798

Check this

$$34 + 10 + 10 + 7$$

= $34 \rightarrow 44 \rightarrow 54 + 7$

Check this

$$753 + 10 + 10 + 10 + 10 + 5$$

= $753 \rightarrow 763 \rightarrow 773 \rightarrow 783$
 $\rightarrow 793 + 5$

3. By Breaking Both the Addends

(a)
$$45 + 23$$

= $40 + 5 + 20 + 3$
= $40 + 20 + 5 + 3$
= $60 + 8$
= 68

(b)
$$215 + 362$$

= $200 + 10 + 5 + 300 + 60 + 2$
= $200 + 300 + 10 + 60 + 5 + 2$
= $500 + 70 + 7$
= 577

4. By Breaking One Addend

(a)
$$78 + 46$$

= $78 + 40 + 6$
= $118 + 6$
= 124

(b)
$$314 + 424$$

= $314 + 400 + 20 + 4$
= $714 + 20 + 4$
= $734 + 4$
= 738

VERTICAL ADDITION

VERTICAL of 3-Digit Numbers With Regrouping Addition of 3-Digit Numbers With Regrouping Addition of Addition of the Books. First book had 346 pages, second book gubal read three books. First book had 346 pages, second book and 127 pages. How many and pages and third book had 127 pages. How many and pages and third book had 127 pages. Rubal read third book had 127 pages, second book had 264 pages and third book had 127 pages. How many pages had 264 pages read by Rubal? in all were read by Rubal?

in all were so, total number of pages read by Rubal = 346 + 264 + 127 so, total number of pages read by Rubal = 346 + 264 + 127

add 346, 264 and 127.



Let	ns.	-	-
SI	ep 1		
	rang	e ti	1e
AI	ha	es i	n
nu	mbe	10	20
	umi		

Step 2 Add ones.

6 + 4 + 7 = 17 ones 1 += 1 ten 7 ones.

	H	T	0
		1	
	3	4	6
+	2	6	4
	1	2	7
I			7

21	e	3 ,	5		
A	de	iı	eı	ns.	
1		A		-	

= 13 tens

Write 7 in the ones = 1 hundred 3 tens. column and carry 1 Write 3 in the tens to the tens column. column and carry 1 to the hundreds column.

	H	T	0
	1	1	
	3	4	6
+	2	6	4
	1	2	7
		3	7

Step 4	
Add hundreds.	
1+3+2+1=	7

	н	T	0
	1	1	
	3	4	6
+	2	6	4
1	1	2	7
	7	3	17

So, 346 + 264 + 127 = 737.

```
Let us regroup hundreds to thousands.

Let us regroup hundreds to thousand + 4 hundreds

14 hundreds = 1 thousand + 4 hundreds

= 2 thousands + 8 hundreds

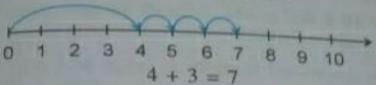
= 2 thousands + 8 hundreds

= 5 thousands + 2 thousands + 4 hundreds

= 5 thousands + 4 hundreds
```

ADDITION OF NUMBERS There are various ways we can add numbers.

1. Using Number Line We can add small numbers on the number line.



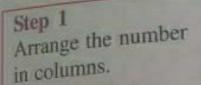
We start from 0 and jump to 4. From 4, we move 3 numbers to the right. We reach at 7. So, 4 + 3 = 7.

Addition of 4-digit Numbers With Regrouping

A factory has 4839 male workers and 1278 female workers. Find the total number of workers in the factory?

Total number of workers in the factory

=4839 + 1278



	Th	H	T	0
+	4	8	3	9
	1	2	7	8

Step 2

Add the ones.

9 + 8 = 17 ones

= 1 ten 7 ones.

Write 7 in the ones column and carry 1 to tens column.

	Th	н	T	0
			1	
+	4	8	3	9
	1	2	7	8
				7

Step 3

Add the tens.

1 + 3 + 7 = 11 tens

= 1 hundred 1 ten.

Write 1 in tens column and carry 1 to hundreds column.

	Th	H	T	0	
		1	1		
+	4	8	3	9	
	1	2	7	8	
	F		1	7	1
		1			i

ESTIMATING SUMS

A shopkeeper has 271 white candles and 128 red candles. How many candles are there in all?

Let us estimate their sum by rounding

Here, estimated sum is close to the

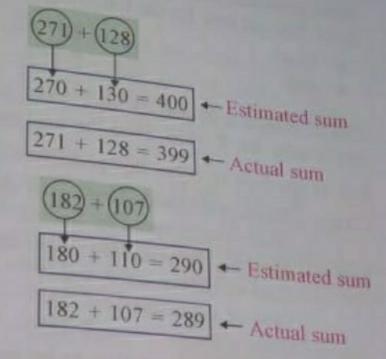
actual sum. So, the shopkeeper has about 400

candles.

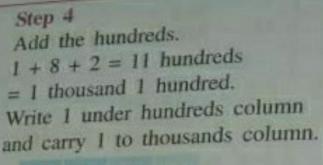
Consider one more example.

There are 182 red cars and 107 black ears in a showroom. How many cars are there in all?

So, there are about 290 cars in the showroom.







	Th	Н	T	0
	1	1	1	
+	4	8	3	9
	1	2	7	8
I		1	1	7

Step 5

Add the thousands.

1+4+1=6 thousands.

Write 6 under thousands col

	Th	Н	T	0
	1	1	1	
+	4	8	3	9
	1	2	7	8
	6	1	1	7

4839 + 1278 = 6117.

efore, there are 6117 workers in the factory.

WORD PROBLEMS

Example -1

Q-1 Shikha bought a dinner set for ₹ 2345, a cupboard for ₹ 2481 and a Table for ₹ 3456.Find the total amount spent by her.

Statment-

Cost of dinner set = 2345

Cost of cupboard = 2481

Cost of table = 3456

	Th	Н	Т	0
	1	1	1	
	2	3	4	5
	2	4	8	1
+	3	4	5	6
Ans	8	2	8	2

Total Money spent = 8282