

Mathematics Calculation Routeway - Addition



Step 1 - Adding

Number bond diagrams

There are 4 slices of cake.
3 slices have cherries.
1 slice has no cherry.

There are 4 slices of cake.
2 slices are pink.
2 slices are yellow.

4 is 3 and 1.

4 is 2 and 2.

There are 18 candles altogether.

$12 + 6 = 18$

$10 + 8 = 18$

$2 + 6 = 8$

Using a number line

How many eggs are there in total?

Why do we count on from the greater number?

We can also do this.

There are eggs in all.

$2 + 5 = 7$

$5 + 2 = 7$

2 What is 1 more than 22?
What is 1 less than 22?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

What is 6 more than 22?
What is 6 less than 22?

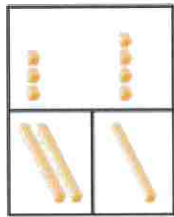
Step 2 - Addition: Written calculation

Add 23 and 14.

Use  to help you add.

Step 1 Add the ones.

3 ones + 4 ones = 7 ones



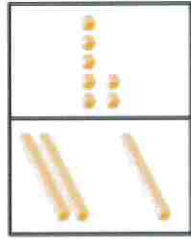
tens	ones
2	3
+ 1	4
3	7

$$3 + 4 = 7$$

Step 2

Add the tens.

2 tens + 1 ten = 3 tens



tens	ones
2	3
+ 1	4
3	7

$$23 + 14 = 37$$

$$20 + 10 = 30$$



Step 3-Addition with renaming

Add 15 and 18.

Use  to help you add.

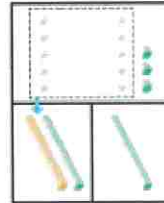
Step 1

Add the ones.

5 ones + 8 ones = 13 ones

Regroup the ones.

13 ones = 1 ten and 3 ones



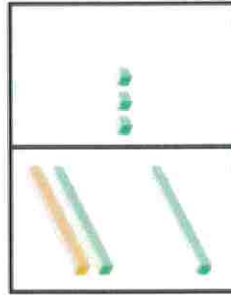
tens	ones
1	5
+ 1	8
1	3

$$15 + 18 = 33$$

Step 2

Add the tens.

1 ten + 1 ten + 1 ten = 3 tens



tens	ones
1	5
+ 1	8
1	3
+ 2	0
3	3

Step 4 – Addition: Written method

Add 278 and 349

Step 1 Add the ones.
8 ones + 9 ones = 17 ones
Regroup the ones.
17 ones = 1 ten + 7 ones

h	t	o
2	7	8
+ 3	4	9
<hr/>		
		7

The sum is the total of 278 and 349.

Step 2 Add the tens.
1 ten + 7 tens + 4 tens = 12 tens
Regroup the tens.
12 tens = 1 hundred + 2 tens

h	t	o
1	2	7
+ 3	4	9
<hr/>		
	2	7

Step 3 Add the hundreds.
1 hundred + 2 hundreds + 3 hundreds = 6 hundreds

h	t	o
1	2	7
+ 3	4	9
<hr/>		
6	2	7

278 + 349 = 627

Bar Model (for problem solving)

has 15 pencils.

There is not enough space to use

has 23 pencils.

How many pencils do they have altogether?

t	o
1	5
+ 2	3
<hr/>	
3	8

15 + 23 = 38

They have 38 pencils altogether.

