Model numbers

Model the following numbers using base 10 blocks and place value mat

Example: 22

Tens	S	One	es	
11	23			37
44	56			62
67	79			80
83	91			99

Number operations

Use base 10 blocks to perform these additions and subtractions

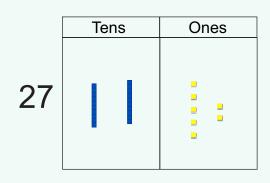
Example: 22 - 10 = 12

2	2
Tens	Ones

1	2
Tens	Ones

Example: 12 + 15 = 27





Place value

Model the following numbers using base 10 blocks and place value chart

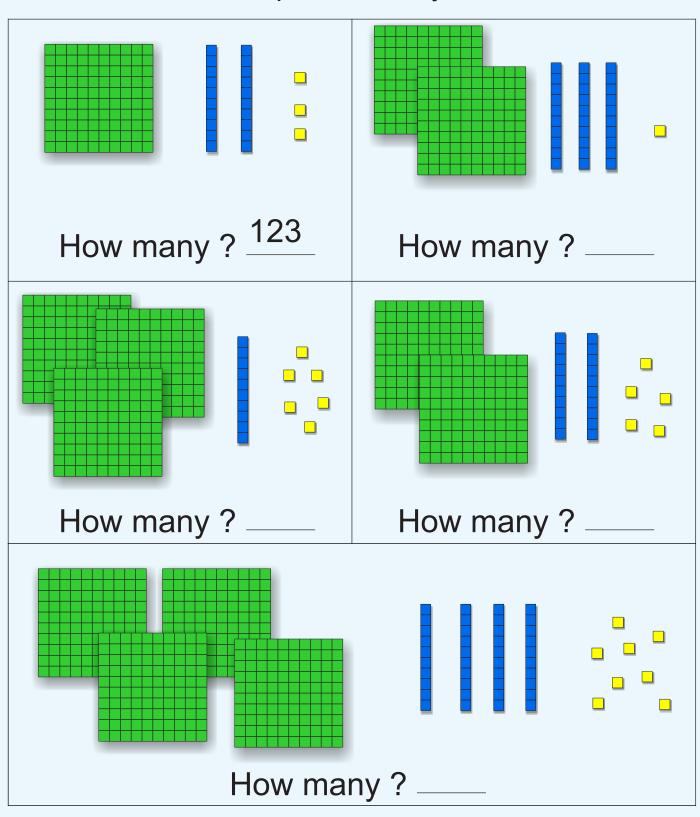
Example: 241 = 2 hundreds, 4 tens and 1 ones

Hundreds	Tens	Ones

110	135	287
213	246	380
306	458	493
526	563	604

Counting Hundreds, Tens and ones

Write the numbers represented by the base 10 blocks

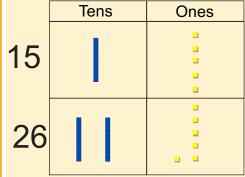


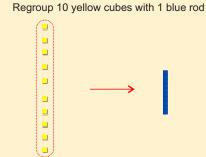
Addition with regrouping

Use base 10 blocks to add these 2 digit numbers with regrouping

Example

$$15 + 26 = 41$$





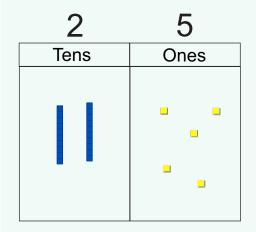
Tens	Ones

41

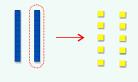
Subtraction with regrouping

Example- Take away 17 from 25

$$25 - 17 = 8$$



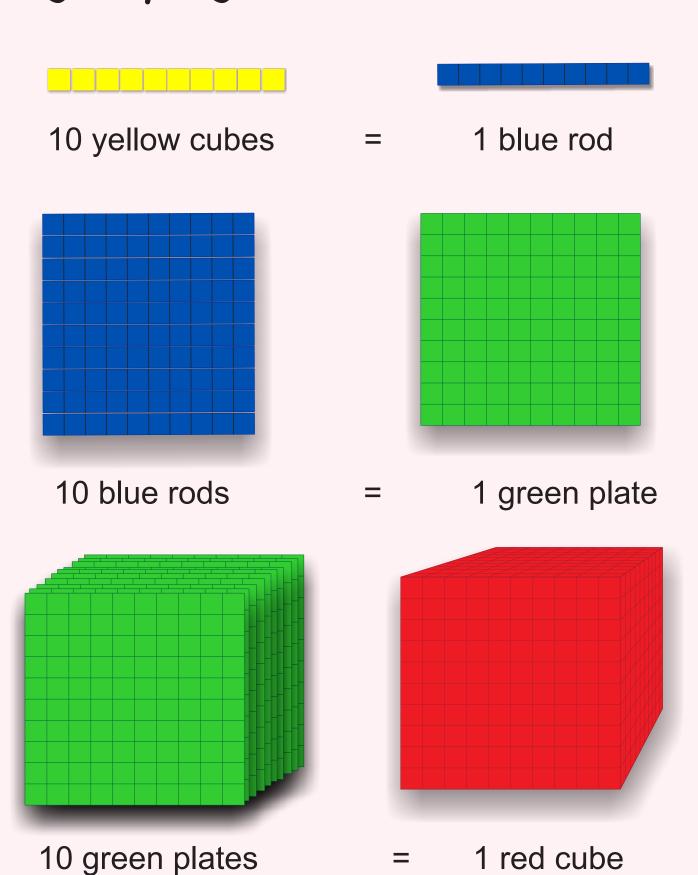
Regroup 1 ten as 10 ones



Tens	Ones	

Tens	Ones

Regrouping with base 10 blocks

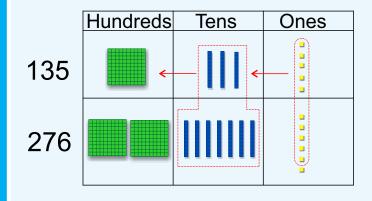


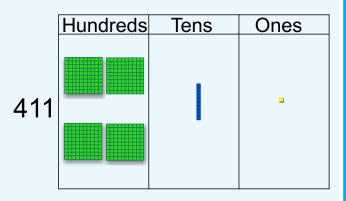
Addition with regrouping

Use base 10 blocks to add these 3 digit numbers with regrouping

Example

$$135 + 276 = 441$$



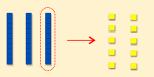


Subtraction with regrouping

Example- Take away 176 from 235 235 - 176 = 59

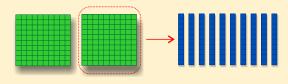
2	3	5
Hundreds	Tens	Ones
	Ш	

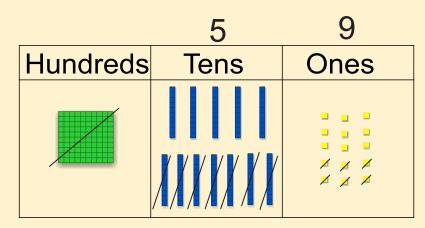
Regroup 1 ten as 10 ones



Hundreds	Tens	Ones

Regroup 1 hundred as 10 tens

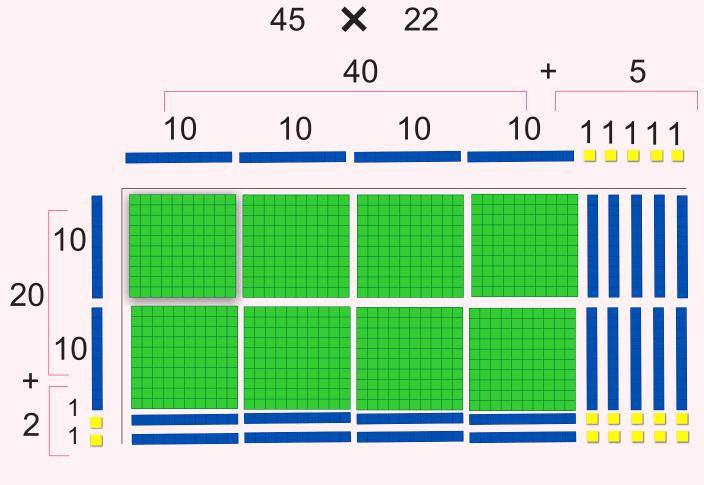




Subtraction with regrouping

Use base 10 blocks to subtract these 3 digit numbers



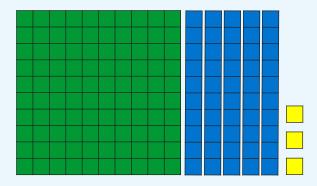




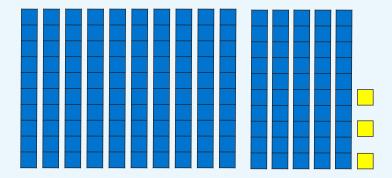
Division

$$153 \div 3 = ?$$

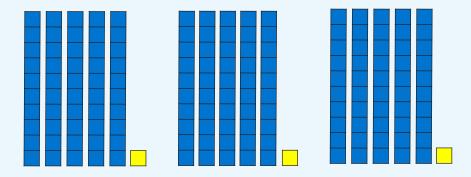
There are 1 green, 5 blue rods and 3 units.



Replace the green plate with 10 blue rods.



Make 3 equal groups of blue rods and yellow cubes.

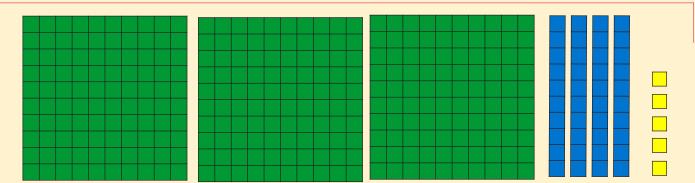


Each group has 5 blue rods and 1 yellow cube, so the answer is 51. $153 \div 3 = 51$

Division

 $345 \div 15 = 23$

345



Step-1 Model 15 out of 345 as a column as shown.

Step-2 Use the remaining and complete the rectangle as shown.

(you will understand that one green plate has been replaced by 10 blue rods and 1 blue rod is replaced by 10 yellow cubes)

Step-3 You will get the answer by counting the number of columns as shown.

