



## Add Whole Numbers With Three Digits

Student's Book p. 120

What You Will Learn:

Estimate and add numbers with regrouping in ones, tens and hundreds.

### Look Back

add

How many blocks does Ron have altogether?

How will you find the answer?

$$\begin{array}{r} 180 \\ + 60 \\ \hline 240 \end{array}$$



Ron has 240 blocks altogether.

180 blue blocks

60 red blocks

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## Thinking Cap



Does Ron have greater than or fewer than 200 blocks altogether? Make a conjecture. Explain your answer.



168 yellow blocks



36 purple blocks

Use base ten blocks to help you.



We can estimate by adding 170 yellow blocks and 40 purple blocks  
 $170 + 40 = 210$ ; So, there are more than 200 blocks.

We can add the numbers of blocks;  $168 + 36 = 204$ . 204 is greater than 200, so there are more than 200 blocks

**Step 1:** Add the ones.

$$\begin{aligned}5 \text{ ones} + 6 \text{ ones} &= 11 \text{ ones} \\11 \text{ ones} &= 1 \text{ ten } 1 \text{ one}\end{aligned}$$

**We start adding or subtracting from the ones place.**

**Step 2:** Add the tens.

$$\begin{aligned}1 \text{ ten} + 6 \text{ tens} + 9 \text{ tens} \\&= 16 \text{ tens} \\16 \text{ tens} &= 1 \text{ hundred } 6 \text{ tens}\end{aligned}$$

**Step 3:** Add the hundreds.

$$\begin{aligned}1 \text{ hundred} + 2 \text{ hundreds} \\&= 3 \text{ hundreds}\end{aligned}$$

## Student's Book p.120

### Let's Learn

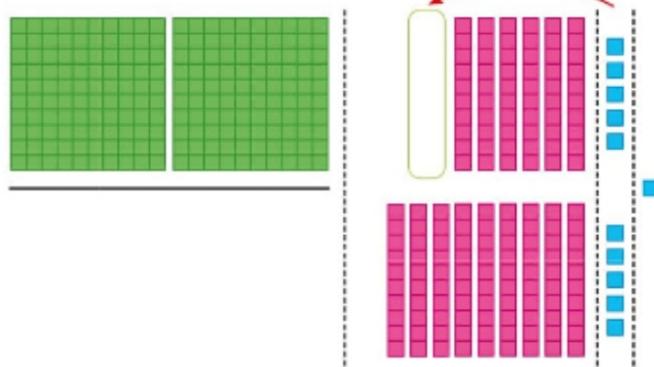
A tailor buys 265 blue buttons and 96 yellow buttons. How many buttons does he buy altogether? **Estimate** your answer before doing the actual calculation.

#### Step 1: Add the ones.

$$5 \text{ ones} + 6 \text{ ones} = 11 \text{ ones}$$

$$11 \text{ ones} = 1 \text{ ten } 1 \text{ one}$$

100s	10s	1s
2	6	5
+	9	6
		1



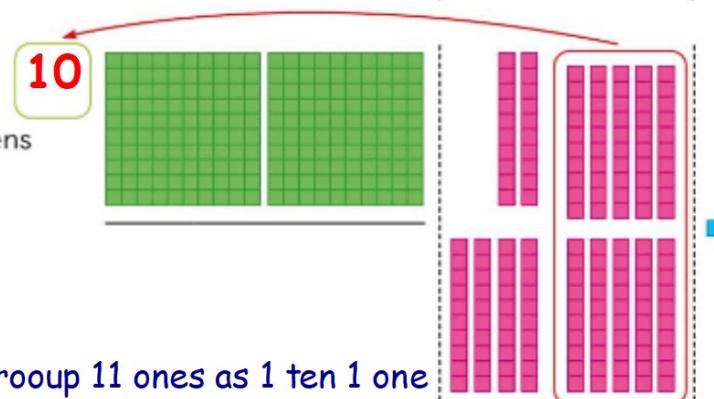
#### Step 2: Add the tens.

$$1 \text{ ten} + 6 \text{ tens} + 9 \text{ tens} = 16 \text{ tens}$$

$$16 \text{ tens} = 1 \text{ hundred } 6 \text{ tens}$$

100s	10s	1s
2	6	5
+	9	6
	6	1

regroup 11 ones as 1 ten 1 one



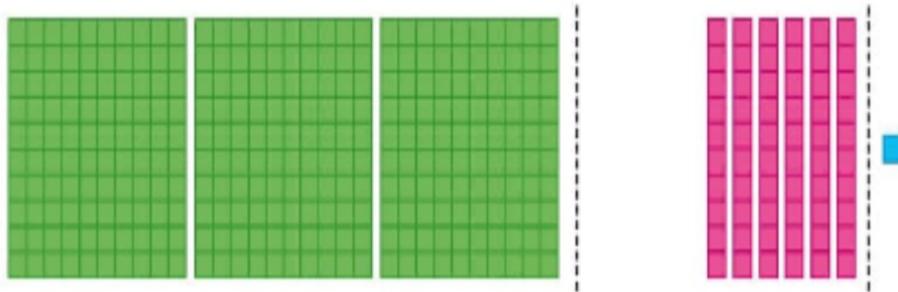
## Student's Book p.121

**Step 3:** Add the hundreds.

regroup 16 tens as 1 hundred 6 tens

$$1 \text{ hundred} + 2 \text{ hundreds} = 3 \text{ hundreds}$$

100s	10s	1s
1	1	
2	6	5
+	9	6
3	6	1



The tailor bought 361 buttons.  
400 is about 361.  
So the answer is reasonable.

Estimate to check your answer.  
265 is close to 300.  
96 is close to 100.  
 $300 + 100 = 400$   
The sum is about 400



## Let's Practise

## Student's Book p.122

1 Estimate your answer and then add. Check if your estimation is reasonable.

a  $582 + 79 =$  661

b  $373 + 857 =$  1230



Is your answer correct?  
Use base ten blocks to  
convince your partner.



2 There are 467 children and 375 adults at a book fair.

How many people are there at the book fair?

Estimate before you solve. 842

3 Do you have a different way to estimate? Compare with your partner's way.

4 A chef makes 384 curry puffs and 516 vegetable puffs in one week.

How many puffs does the chef make in all? Estimate your answer before actual calculation.

The chef made 900 puffs in all.

Use a calculator to  
check your answer.



4      4 ▲ 8  
+ 2 7 ■  
—————  
7 3 4

**458 + 276**

What number do you think each shape stands for?

Convince your partner that your answer is correct.