

Name \_\_\_\_\_

# Draw to Represent 3-Digit Addition

Add 213 and 124.

Draw quick pictures of 213 and 124.

Count the hundreds, tens, and ones.

3 hundreds   3 tens   7 ones

Write the number.   337

Hundreds	Tens	Ones

**Draw quick pictures. Write how many hundreds, tens, and ones in all. Write the number.**

1. Add 135 and 214.

Hundreds	Tens	Ones

\_\_\_\_\_ hundreds   \_\_\_\_\_ tens   \_\_\_\_\_ ones

\_\_\_\_\_

2. Add 121 and 143.

Hundreds	Tens	Ones

\_\_\_\_\_ hundreds   \_\_\_\_\_ tens   \_\_\_\_\_ ones

\_\_\_\_\_

**Break Apart 3-Digit Addends**

$$\begin{array}{r} 743 \\ + 124 \\ \hline \end{array}$$

Break apart each addend.  
Write the value of each digit.

$$743 = \underline{700} + \underline{40} + \underline{3}$$

$$124 = \underline{100} + \underline{20} + \underline{4}$$

Add the hundreds, tens, and ones.  
Then add these sums together.

	Hundreds		Tens		Ones	
743	<u>700</u>	+	<u>40</u>	+	<u>3</u>	
<u>+ 124</u>	<u>100</u>	+	<u>20</u>	+	<u>4</u>	
	<u>800</u>	+	<u>60</u>	+	<u>7</u>	= <u>867</u>

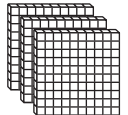


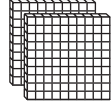
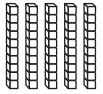

**Break apart the addends to find the sum.**

	Hundreds		Tens		Ones	
1. 253	_____	+	_____	+	_____	
<u>+ 536</u>	_____	+	_____	+	_____	
	_____	+	_____	+	_____	= _____

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# 3-Digit Addition: Regroup Ones

Add.  $318$   
 $+ 256$

Hundreds	Tens	Ones
		
		

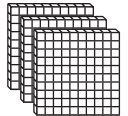


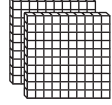
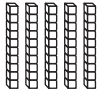

Hundreds	Tens	Ones
	<input style="width: 30px; height: 30px;" type="text"/>	
$3$	$1$	$8$
$+$	$2$	$5$

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Add the ones.  
 $8 + 6 = 14$

Do you need to regroup? yes

Regroup 10 ones as 1 ten.

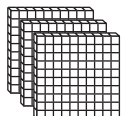


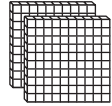
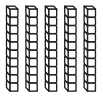

Hundreds	Tens	Ones
		
		

Hundreds	Tens	Ones
	<input style="width: 30px; height: 30px;" type="text"/>	
$3$	$1$	$8$
$+$	$2$	$5$
		$4$

---

Add the tens.  
 $1 + 1 + 5 = 7$

Add the hundreds.  
 $3 + 2 = 5$

Hundreds	Tens	Ones
		
		

Hundreds	Tens	Ones
	<input style="width: 30px; height: 30px;" type="text"/>	
$3$	$1$	$8$
$+$	$2$	$5$
$5$	$7$	$4$

Write the sum.

1.

	Hundreds	Tens	Ones
		<input style="width: 30px; height: 30px;" type="text"/>	
	$5$	$2$	$6$
$+$	$1$	$4$	$2$

2.

	Hundreds	Tens	Ones
		<input style="width: 30px; height: 30px;" type="text"/>	
	$4$	$5$	$7$
$+$	$3$	$3$	$5$

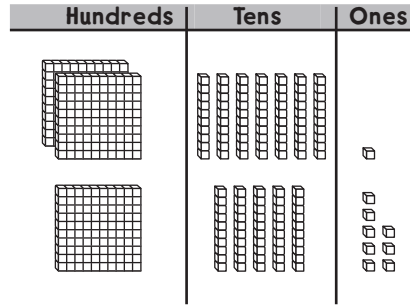
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### 3-Digit Addition: Regroup Tens

Add.  $271$   
 $+ 158$

Add the ones.

$1 + 8 = 9$



Hundreds	Tens	Ones
<input type="text"/>	<input type="text"/>	<input type="text"/>
2	7	1
+	1	5
		8
		9

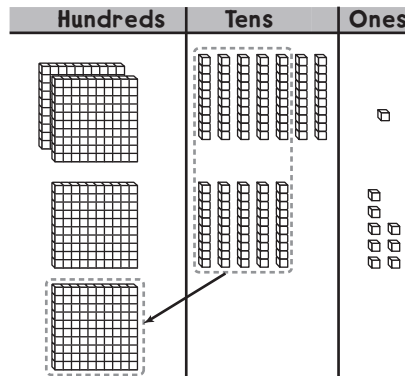
Add the tens.

$7 + 5 = 12$

Do you need to

regroup? **yes**

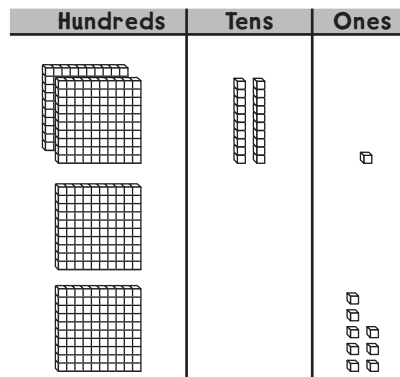
Regroup 12 tens  
as 1 hundred 2 tens.



Hundreds	Tens	Ones
<input type="text"/>	<input type="text"/>	<input type="text"/>
2	7	1
+	1	5
		8
1		2
		9

Add the hundreds.

$1 + 2 + 1 = 4$



Hundreds	Tens	Ones
<input type="text"/>	<input type="text"/>	<input type="text"/>
2	7	1
+	1	5
1	2	8
4	2	9

Write the sum.

1.

	Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	2	6	4
+	1	4	5
<hr/>			

2.

	Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	2	3	2
+	6	0	6
<hr/>			

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# Addition: Regroup Ones and Tens

Sometimes, you may need to regroup more than once.

$$\begin{array}{r} 189 \\ + 623 \\ \hline \end{array}$$

**Step 1** Add the ones.  
There are 12 ones in all.  
Regroup 12 ones as 1 ten 2 ones.

$$\begin{array}{r|c|c} & \text{---} & \\ \hline & 1 & 8 & 9 \\ + & 6 & 2 & 3 \\ \hline & & & 2 \end{array}$$

**Step 2** Add the tens.  
There are 11 tens in all.  
Regroup 11 tens as 1 hundred 1 ten.

$$\begin{array}{r|c|c} \text{---} & & \\ \hline & 1 & 8 & 9 \\ + & 6 & 2 & 3 \\ \hline & & \text{---} & 2 \end{array}$$

**Step 3** Add the hundreds.  
There are 8 hundreds in all.

$$\begin{array}{r|c|c} & & \\ \hline & 1 & 8 & 9 \\ + & 6 & 2 & 3 \\ \hline 8 & 1 & 2 \end{array}$$

**Write the sum.**

1.

$$\begin{array}{r|c|c|c} & & & \\ \hline & 2 & 7 & 8 \\ + & 4 & 6 & 5 \\ \hline & & & \end{array}$$

2.

$$\begin{array}{r|c|c|c} & & & \\ \hline & 1 & 5 & 7 \\ + & 7 & 7 & 1 \\ \hline & & & \end{array}$$

3.

$$\begin{array}{r|c|c|c} & & & \\ \hline & 3 & 6 & 4 \\ + & 4 & 1 & 9 \\ \hline & & & \end{array}$$

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## Estimation in 3-Digit Addition

How many hundreds are in each number?  
Identify the hundreds digit and describe its value in a 3-digit number.

529

338

The digit 9 is in the ones place.  
The digit 2 is in the tens place.  
The digit 5 is in the hundreds place.  
So, there are 5 hundreds in 529.

The digit 8 is in the ones place.  
The digit 3 is in the tens place.  
The digit 3 is in the hundreds place.  
So, there are 3 hundreds in 338.

Use the values of the hundreds digit.  
Estimate the sum.

1.

$$\begin{array}{r} 417 \\ + 235 \\ \hline \end{array} \qquad \begin{array}{r} + \\ \hline \end{array}$$

An estimate for the sum is \_\_\_\_\_.

2.

$$\begin{array}{r} 609 \\ + 334 \\ \hline \end{array} \qquad \begin{array}{r} + \\ \hline \end{array}$$

An estimate for the sum is \_\_\_\_\_.

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## Problem Solving • 3-Digit Subtraction

There were 237 books on the shelves.  
Mr. Davies took 126 books off the shelves.  
How many books were still on the shelves?

### Unlock the Problem

**What do I need to find?**

how many books

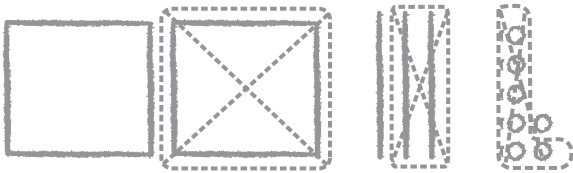
were still on the shelves

**What information do I need to use?**

There were 237 books on the shelves.

Mr. Davies took 126 books off the shelves.

**Show how to solve the problem.**



There were 111 books still on the shelves.

**Make a model to solve. Then draw a quick picture of your model.**

- Mr. Cho has 256 pencils.  
Then he sells 132 pencils.  
How many pencils does he have now?

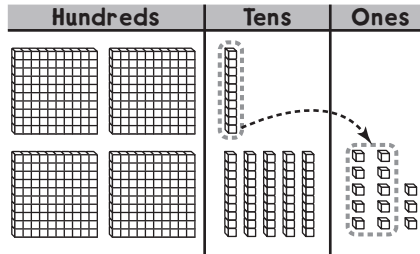
\_\_\_\_\_ pencils

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# 3-Digit Subtraction: Regroup Tens

Subtract.  $463$   
 $- 317$

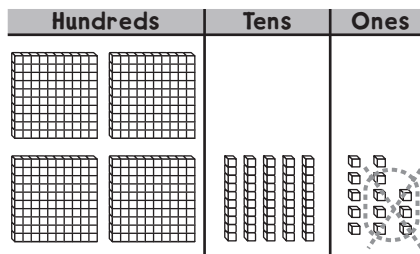
Are there enough ones to subtract 7? no  
Regroup 1 ten as 10 ones.



Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>
4	6	3
- 3	1	7

There are 13 ones  
and 5 tens.

Subtract the ones.  
 $13 - 7 = \underline{6}$



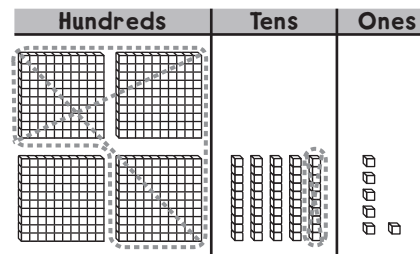
Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>
4	6	3
- 3	<del>1</del>	<del>3</del>
		6

Subtract the tens.

$5 - 1 = \underline{4}$

Subtract the hundreds.

$4 - 3 = \underline{1}$



Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>
4	5	13
- 3	<del>1</del>	<del>3</del>
1	4	6

Solve. Write the difference.

1.

Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>
8	6	2
- 3	2	8

2.

Hundreds	Tens	Ones
	<input type="text"/>	<input type="text"/>
6	7	8
- 2	4	5



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# 3-Digit Subtraction: Regroup Hundreds

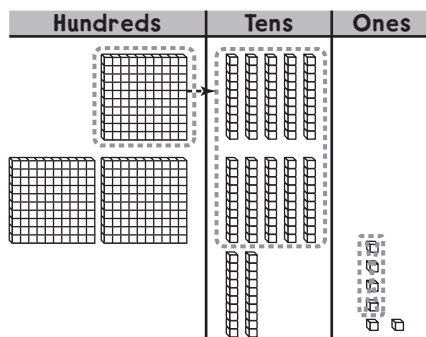
Subtract.  $326$   
 $- 174$

Subtract the ones.

$6 - 4 = 2$

Are there enough tens to subtract 7 tens? no

Regroup 1 hundred as 10 tens.



Hundreds	Tens	Ones
2	12	
3	2	6
- 1	7	4
		2

Now there are 12 tens

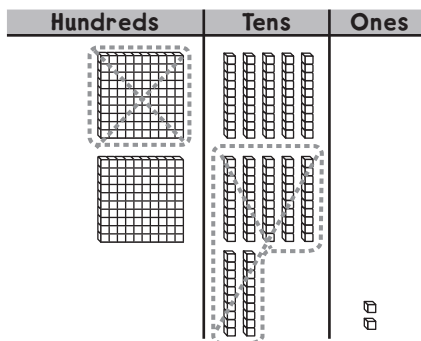
and 2 hundreds.

Subtract the tens.

$12 - 7 = 5$

Subtract the hundreds.

$2 - 1 = 1$



Hundreds	Tens	Ones
2	12	
<del>3</del>	<del>2</del>	6
- 1	7	4
1	5	2

Solve. Write the difference.

1.

Hundreds	Tens	Ones
6	7	9
- 2	6	1

2.

Hundreds	Tens	Ones
5	2	5
- 2	9	3

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# Subtraction: Regroup Hundreds and Tens

You may need to regroup more than once.

$$\begin{array}{r} 282 \\ - 198 \\ \hline \end{array}$$

Regroup 1 ten as 10 ones. Subtract the ones.

$$\begin{array}{r} \phantom{2}7\cancel{1}2 \\ \phantom{2}\cancel{8}2 \\ - 198 \\ \hline \phantom{2}\phantom{8}4 \end{array}$$

Regroup 1 hundred as 10 tens. Subtract the tens.

$$\begin{array}{r} \phantom{2}17\cancel{1}2 \\ \phantom{2}\cancel{8}\cancel{2} \\ - 198 \\ \hline \phantom{2}84 \end{array}$$

Subtract the hundreds.

$$\begin{array}{r} \phantom{2}17\cancel{1}2 \\ \phantom{2}\cancel{8}\cancel{2} \\ - 198 \\ \hline \phantom{2}84 \end{array}$$

Solve. Write the difference.

1. 
$$\begin{array}{r} 481 \\ - 176 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 746 \\ - 28 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 331 \\ - 148 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 395 \\ - 131 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 524 \\ - 265 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 748 \\ - 603 \\ \hline \end{array}$$

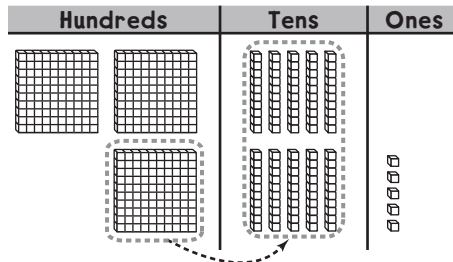
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# Regrouping with Zeros

Subtract 138 from 305.

There are not enough ones to subtract 8.

Since there are 0 tens, regroup 3 hundreds as 2 hundreds 10 tens.

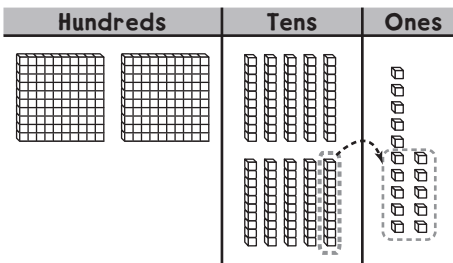


$$\begin{array}{r} 2 \overset{10}{0} 5 \\ - 138 \\ \hline \end{array}$$

Then regroup 10 tens 5 ones as 9 tens 15 ones.

Subtract the ones.

$$15 - 8 = 7$$



$$\begin{array}{r} 2 \overset{9}{10} 15 \\ - 138 \\ \hline 7 \end{array}$$

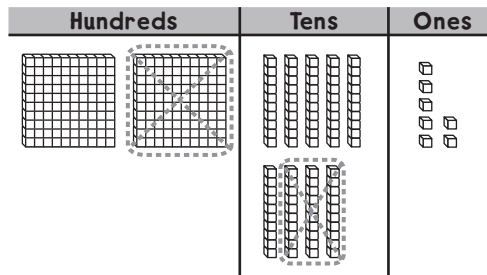
Subtract the tens.

$$9 - 3 = 6$$

Subtract the hundreds.

$$2 - 1 = 1$$

So,  $305 - 138 = \underline{167}$ .



$$\begin{array}{r} 2 \overset{9}{10} 15 \\ - 138 \\ \hline 167 \end{array}$$

Solve. Write the difference.

1. 
$$\begin{array}{r} 801 \\ - 375 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 693 \\ - 241 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 907 \\ - 624 \\ \hline \end{array}$$

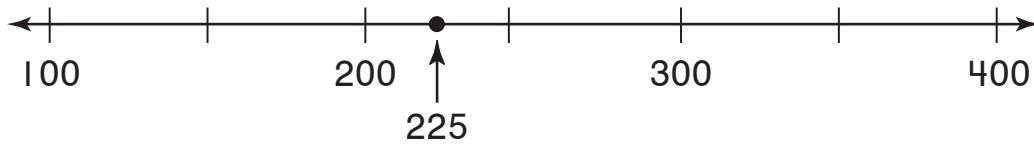
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## Estimation in 3-Digit Subtraction

When you do not need an exact answer,  
it is called an estimate.

You can use a number line to find the nearest  
hundred for a number.

**Which is the nearest hundred to 225?**



When you estimate to find the  
nearest hundred, if the tens  
digit is greater than 5, the  
hundreds digit increases by 1.

If the tens digit is less than  
5, the hundreds digit stays  
the same.

Look at the number line.

Which hundred is the nearest hundred to the number?

The nearest hundred to 225 is 200.

Look at the number line.

Estimate to find the nearest hundred for each number.

Then estimate the difference.

1. 
$$\begin{array}{r} 180 \\ - 145 \\ \hline \end{array} \longrightarrow \underline{\quad}$$

2. 
$$\begin{array}{r} 349 \\ - 108 \\ \hline \end{array} \longrightarrow \underline{\quad}$$

An estimate for  
the difference is \_\_\_\_\_.

An estimate for  
the difference is \_\_\_\_\_.