

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

\_\_\_\_\_

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# Addition Triplets

One addend is in standard form, but the other is missing! Draw a quick picture to find the unknown addend.

<p>1. <span style="margin-left: 100px;">542</span></p> <div style="text-align: center; margin: 10px 0;">  </div> <p style="margin-left: 20px;">+</p> <hr style="width: 30%; margin: 0 auto;"/> <p style="text-align: center; margin-left: 50px;">999</p>	<p>2. <span style="margin-left: 100px;">647</span></p> <div style="text-align: center; margin: 10px 0;">  </div> <p style="margin-left: 20px;">+</p> <hr style="width: 30%; margin: 0 auto;"/> <p style="text-align: center; margin-left: 50px;">888</p>
<p>3. <span style="margin-left: 100px;">401</span></p> <div style="text-align: center; margin: 10px 0;">  </div> <p style="margin-left: 20px;">+</p> <hr style="width: 30%; margin: 0 auto;"/> <p style="text-align: center; margin-left: 50px;">777</p>	<p>4. <span style="margin-left: 100px;">250</span></p> <div style="text-align: center; margin: 10px 0;">  </div> <p style="margin-left: 20px;">+</p> <hr style="width: 30%; margin: 0 auto;"/> <p style="text-align: center; margin-left: 50px;">666</p>



**Writing and Reasoning** How did you decide what to draw for Exercise 3? Explain.

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## 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>	
+ 124	<u>100</u>	+	<u>20</u>	+	<u>4</u>	
	<u>800</u>					
	<u>800</u>	+	<u>60</u>	+	<u>7</u>	= <u>867</u>

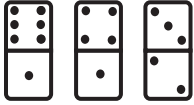
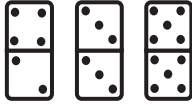
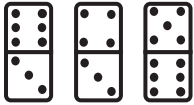
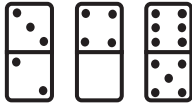
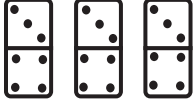
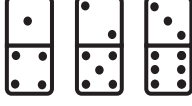
Break apart the addends to find the sum.

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

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# Domino Break

Each set of dominoes shows a 3-digit addend on top and another on the bottom. Break apart the addends to find the sum.

<p>1. </p> $\begin{array}{r} 600 \\ + 40 \\ + 3 \\ \hline 100 \\ + 10 \\ + 2 \\ \hline 755 \end{array}$	<p>2. </p> $\begin{array}{r} \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \end{array}$
<p>3. </p> $\begin{array}{r} \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \end{array}$	<p>4. </p> $\begin{array}{r} \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \end{array}$
<p>5. </p> $\begin{array}{r} \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \end{array}$	<p>6. </p> $\begin{array}{r} \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ + \underline{\hspace{2em}} \\ \hline \underline{\hspace{2em}} \end{array}$

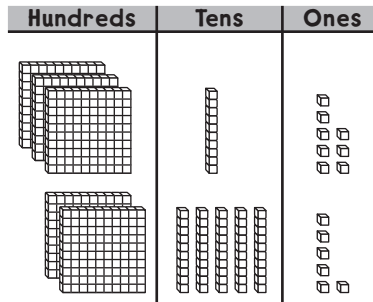


**Writing and Reasoning** Draw your own set of dominoes to show 3-digit addition. Give it to a classmate to solve.

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# 3-Digit Addition: Regroup Ones

Add.  $318$   
 $+ 256$



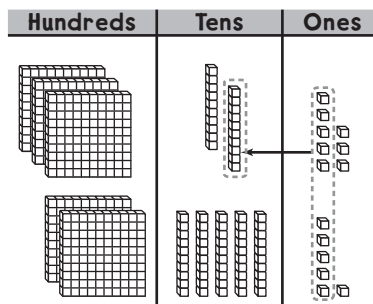
Hundreds	Tens	Ones
	<input type="text"/>	
3	1	8
+	2	5
<hr/>		

Add the ones.

$8 + 6 = 14$

Do you need to  
regroup? yes

Regroup 10 ones as 1 ten.



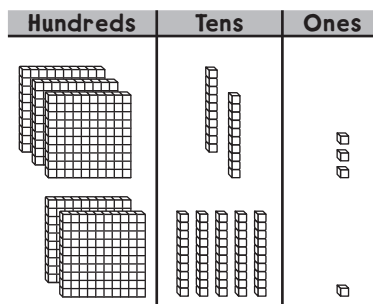
Hundreds	Tens	Ones
	<input type="text"/>	
3	1	8
+	2	5
<hr/>		
		4

Add the tens.

$1 + 1 + 5 = 7$

Add the hundreds.

$3 + 2 = 5$



Hundreds	Tens	Ones
	<input type="text"/>	
3	1	8
+	2	5
<hr/>		
5	7	4

Write the sum.

1.

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

2.

Hundreds	Tens	Ones
	<input type="text"/>	
4	5	7
+	3	3
<hr/>		

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### 3-Digit Scramble

Use each digit once to make two addends for a problem in which you regroup ones. Solve.

1. 6, 5, 3, 1, 2, 4

Hundreds	Tens	Ones
	□	
+		

2. 4, 4, 1, 3, 3, 9

Hundreds	Tens	Ones
	□	
+		

3. 2, 1, 3, 7, 2, 4

Hundreds	Tens	Ones
	□	
+		

4. 4, 3, 2, 2, 1, 6

Hundreds	Tens	Ones
	□	
+		



**Writing and Reasoning** How did you make sure you would need to regroup ones?

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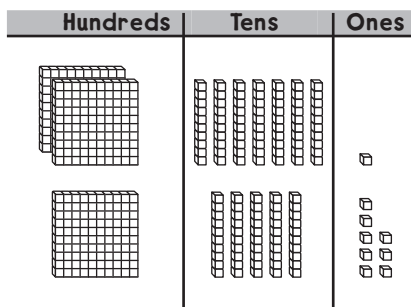
Name \_\_\_\_\_

### 3-Digit Addition: Regroup Tens

Add.  $271$   
 $+ 158$

Add the ones.

$1 + 8 = 9$



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

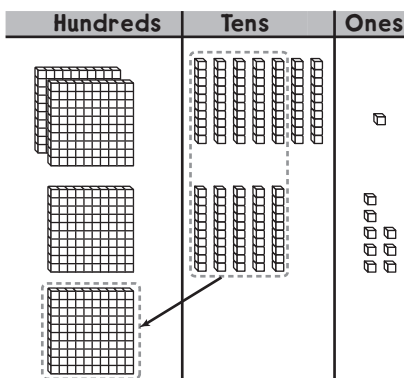
Add the tens.

$7 + 5 = 12$

Do you need to

regroup? yes

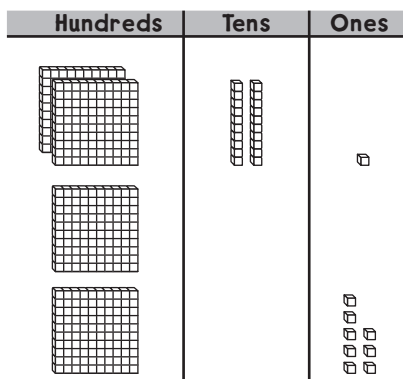
Regroup 12 tens as 1 hundred 2 tens.



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

Add the hundreds.

$1 + 2 + 1 = 4$



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

Write the sum.

1.

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

2.

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

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# Triple Digits

Use the numbers on the shirts to make an addition problem in which you regroup tens. Write the sum.

1.

1	8	6
4	5	2

+		

2.

3	7	4
1	6	5

+		

3.

1	7	2
6	5	3

+		

4.

3	9	1
4	5	2

+		



**Writing and Reasoning** Write your own 3-digit addition problem in which you regroup tens. Give it to a classmate to solve.



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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.

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

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

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

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

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

Write the sum.

1.

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

2.

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

3.

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

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## Paint by Regrouping

Find each sum. Color the problem blue if you regrouped twice. Color the problem green if you regrouped once. Color the problem yellow if you did not regroup.

<p>1.</p> $\begin{array}{r} 127 \\ + 293 \\ \hline \end{array}$	<p>2.</p> $\begin{array}{r} 785 \\ + 152 \\ \hline \end{array}$	<p>3.</p> $\begin{array}{r} 825 \\ + 123 \\ \hline \end{array}$
<p>4.</p> $\begin{array}{r} 378 \\ + 204 \\ \hline \end{array}$	<p>5.</p> $\begin{array}{r} 561 \\ + 327 \\ \hline \end{array}$	<p>6.</p> $\begin{array}{r} 486 \\ + 335 \\ \hline \end{array}$
<p>7.</p> $\begin{array}{r} 237 \\ + 522 \\ \hline \end{array}$	<p>8.</p> $\begin{array}{r} 287 \\ + 536 \\ \hline \end{array}$	<p>9.</p> $\begin{array}{r} 709 \\ + 216 \\ \hline \end{array}$



**Writing and Reasoning** Why do you sometimes need to regroup in 3-digit addition problems?

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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

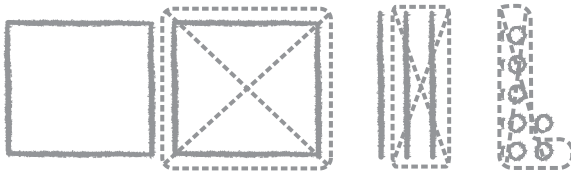
were still on the shelves

**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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# What Is the Difference?

Use the information on the farmer's list to write and solve the subtraction problem.

247 bananas	
132 pears	
278 apples	
390 oranges	
275 violets	
653 daisies	
128 lilies	
448 roses	

- How many more oranges than apples are there?  
 $\underline{\quad 112 \quad}$  more oranges
- How many more bananas than pears are there?  
 $\underline{\hspace{2cm}}$  more bananas
- How many more roses than lilies are there?  
 $\underline{\hspace{2cm}}$  more roses
- How many more daisies than violets are there?  
 $\underline{\hspace{2cm}}$  more daisies



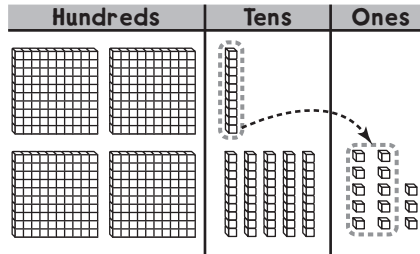
**Writing and Reasoning** Use the list to write your own subtraction problem. Have a classmate solve it.

Name \_\_\_\_\_

# 3-Digit Subtraction: Regroup Tens

Subtract. 
$$\begin{array}{r} 463 \\ - 317 \\ \hline \end{array}$$

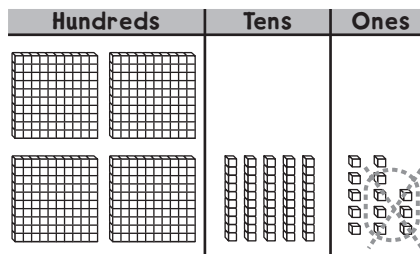
Are there enough ones to subtract 7? no  
Regroup 1 ten as 10 ones.



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

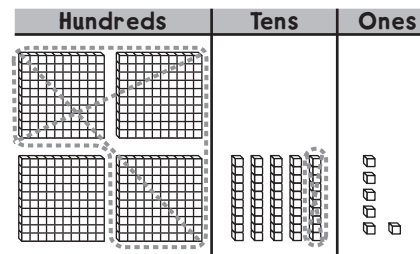
There are 13 ones  
and 5 tens.

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



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

Solve. Write the difference.

1.

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

2.

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

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# Subtraction Steps

Solve each subtraction problem.

$\begin{array}{r} \square \square \\ 793 \\ - 129 \\ \hline \end{array}$	$\begin{array}{r} \square \square \\ 538 \\ - 219 \\ \hline \end{array}$	$\begin{array}{r} \square \square \\ 975 \\ - 118 \\ \hline \end{array}$
$\begin{array}{r} \square \square \\ 664 \\ - 217 \\ \hline \end{array}$	$\begin{array}{r} \square \square \\ 657 \\ - 119 \\ \hline \end{array}$	$\begin{array}{r} \square \square \\ 538 \\ - 119 \\ \hline \end{array}$
$\begin{array}{r} \square \square \\ 319 \\ - 119 \\ \hline \end{array}$	$\begin{array}{r} \square \square \\ 857 \\ - 319 \\ \hline \end{array}$	$\begin{array}{r} \square \square \\ 328 \\ - 109 \\ \hline \end{array}$



**Writing and Reasoning** Write your own 3-digit subtraction problem that has no regrouping.

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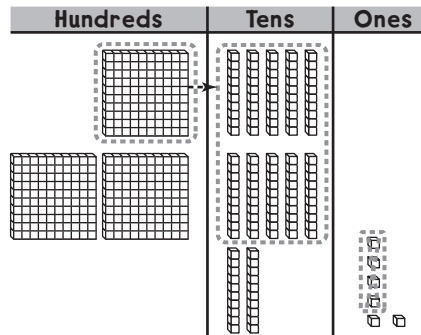
# 3-Digit Subtraction: Regroup Hundreds

Subtract.  $326$   
 $- 174$

Subtract the ones.

$6 - 4 = 2$

Are there enough tens to subtract 7 tens? no



Hundreds	Tens	Ones
2	12	
3	2	6
1	7	4
<hr/>		2

Regroup 1 hundred as 10 tens.

Now there are 12 tens

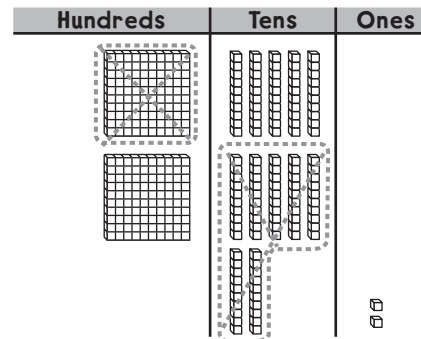
and 2 hundreds.

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
<hr/>		2
1	5	

## Solve. Write the difference.

1.

Hundreds	Tens	Ones
6	7	9
2	6	1
<hr/>		

2.

Hundreds	Tens	Ones
5	2	5
2	9	3
<hr/>		

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# Check It Out

Solve the subtraction problem. Then complete the addition problem to check your work.

1.

$$\begin{array}{r} 975 \\ - 258 \\ \hline 717 \end{array}$$

$$\begin{array}{r} 717 \\ + 258 \\ \hline 975 \end{array}$$

2.

$$\begin{array}{r} 849 \\ - 355 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0} \\ + 355 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 627 \\ - 346 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0} \\ + 346 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 798 \\ - 468 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0} \\ + 468 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 546 \\ - 173 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0} \\ + 173 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 438 \\ - 270 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0} \\ + 270 \\ \hline \end{array}$$



**Writing and Reasoning** Why can you use addition to check your subtraction?

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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.

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

Regroup 1 hundred as 10 tens. Subtract the tens.

$$\begin{array}{r} \phantom{1}17 \\ \phantom{1}\cancel{7}\cancel{1}2 \\ \phantom{1}\cancel{2}\cancel{8}\cancel{2} \\ - 198 \\ \hline \phantom{1}\phantom{7}84 \end{array}$$

Subtract the hundreds.

$$\begin{array}{r} \phantom{1}17 \\ \phantom{1}\cancel{7}\cancel{1}2 \\ \phantom{1}\cancel{2}\cancel{8}\cancel{2} \\ - 198 \\ \hline \phantom{1}\phantom{7}84 \end{array}$$

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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# Subtraction Squares

Start at the top right circle. Subtract to find the missing number in each circle.

1.

$$\begin{array}{r}
 \textcircled{843} - \textcircled{371} = \textcircled{\phantom{000}} \\
 \hline
 \textcircled{\phantom{000}} - \textcircled{189} \\
 \hline
 \textcircled{718} - \textcircled{\phantom{000}} = \textcircled{\phantom{000}}
 \end{array}$$

2.

$$\begin{array}{r}
 \textcircled{972} - \textcircled{384} = \textcircled{\phantom{000}} \\
 \hline
 \textcircled{\phantom{000}} - \textcircled{297} \\
 \hline
 \textcircled{621} - \textcircled{\phantom{000}} = \textcircled{\phantom{000}}
 \end{array}$$



**Writing and Reasoning** How is regrouping in subtraction different from regrouping in addition?

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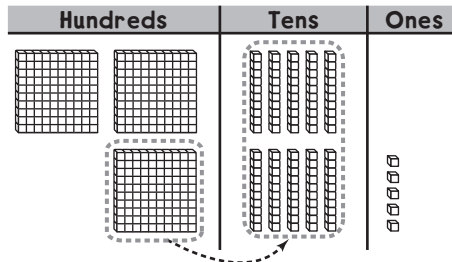
Name \_\_\_\_\_

# 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.

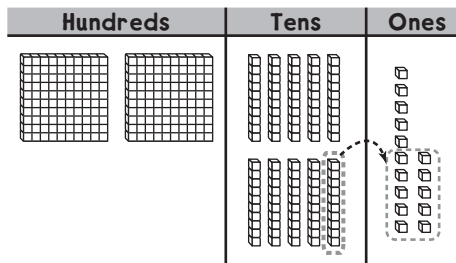


$$\begin{array}{r} 210 \\ 305 \\ - 138 \\ \hline \end{array}$$

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

Subtract the ones.

$$15 - 8 = 7$$



$$\begin{array}{r} 210 \\ 305 \\ - 138 \\ \hline 7 \end{array}$$

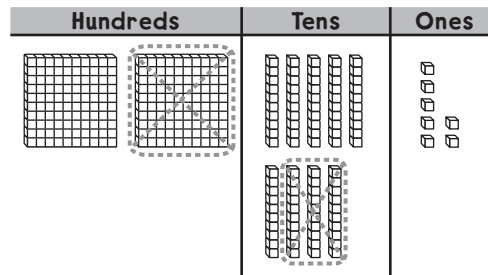
Subtract the tens.

$$9 - 3 = 6$$

Subtract the hundreds.

$$2 - 1 = 1$$

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



$$\begin{array}{r} 210 \\ 305 \\ - 138 \\ \hline 167 \end{array}$$

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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# Mystery Number

Subtract to find each difference.

Color the box for each difference with a 3 in the hundreds place to discover the mystery number.

$\begin{array}{r} 407 \\ - 259 \\ \hline \end{array}$	$\begin{array}{r} 901 \\ - 539 \\ \hline \end{array}$	$\begin{array}{r} 702 \\ - 355 \\ \hline \end{array}$	$\begin{array}{r} 704 \\ - 352 \\ \hline \end{array}$
$\begin{array}{r} 809 \\ - 379 \\ \hline \end{array}$	$\begin{array}{r} 609 \\ - 269 \\ \hline \end{array}$	$\begin{array}{r} 303 \\ - 111 \\ \hline \end{array}$	$\begin{array}{r} 508 \\ - 119 \\ \hline \end{array}$
$\begin{array}{r} 402 \\ - 174 \\ \hline \end{array}$	$\begin{array}{r} 508 \\ - 183 \\ \hline \end{array}$	$\begin{array}{r} 808 \\ - 437 \\ \hline \end{array}$	$\begin{array}{r} 902 \\ - 538 \\ \hline \end{array}$



**Writing and Reasoning** What is the mystery number? \_\_\_\_\_

When do you need to regroup hundreds in a subtraction problem?

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