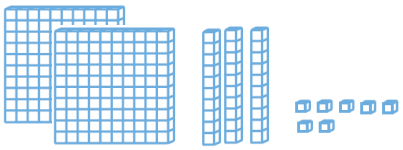
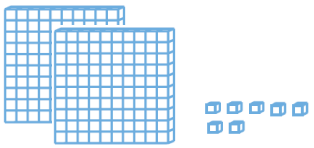
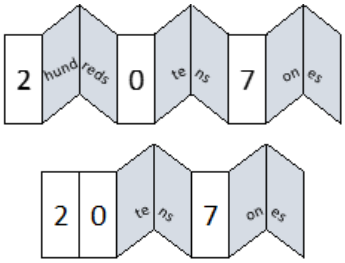
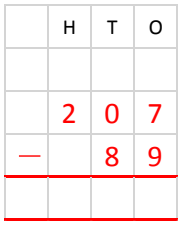
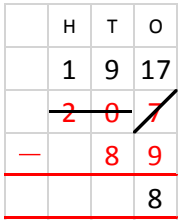
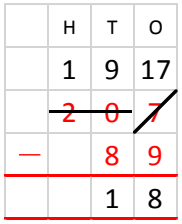
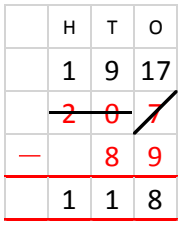
Subtraction script (Decomposition method)

<table>
<tr><th>Language (Script)</th><th>Materials</th><th>Recording</th></tr>
<tr><td>237 subtract 179</td><td> 
Base 10 material is
used to support renaming</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>2</td><td>3</td><td>7</td></tr>
<tr><td>—</td><td>1</td><td>7</td><td>9</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td colspan="2">Subtract the ones
7 ones. Can you take away 9 ones?
No. There are not enough ones so you need to rename
Rename 3 tens and 7 ones as 2 tens and 17 ones
17 ones. Can you take away 9 ones?
Yes. 8 ones</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td></td><td>2</td><td>17</td></tr>
<tr><td></td><td>2</td><td>3</td><td>7</td></tr>
<tr><td>—</td><td>1</td><td>7</td><td>9</td></tr>
<tr><td></td><td></td><td></td><td>8</td></tr>
</table>
</td></tr>
<tr><td colspan="2">Subtract the tens
2 tens. Can you take away 7 tens?
No. There are not enough tens so you need to rename
Rename 2 hundreds and 2 tens as 1 hundred and 12 tens
12 tens. Can you take away 7 tens?
Yes. 5 tens</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td>1</td><td>12</td><td>17</td></tr>
<tr><td></td><td>2</td><td>3</td><td>7</td></tr>
<tr><td>—</td><td>1</td><td>7</td><td>9</td></tr>
<tr><td></td><td></td><td>5</td><td>8</td></tr>
</table>
</td></tr>
<tr><td colspan="2">Subtract the hundreds
1 hundred. Can you take away 1 hundred?
Yes, there is no need to rename.
1 hundred take away 1 hundred is 0 hundreds</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td>1</td><td>12</td><td>17</td></tr>
<tr><td></td><td>2</td><td>3</td><td>7</td></tr>
<tr><td>—</td><td>1</td><td>7</td><td>9</td></tr>
<tr><td></td><td>0</td><td>5</td><td>8</td></tr>
</table>
</td></tr>
<tr><td colspan="3">237 subtract 179 is 58</td></tr>
</table>

Subtraction script (Decomposition method with internal zeros #1)

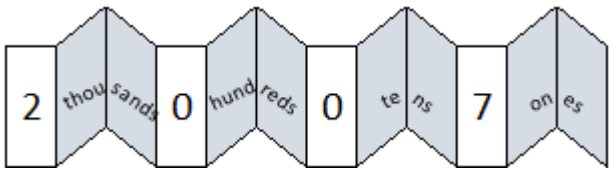
<table>
<tr><th>Language (Script)</th><th>Materials</th><th>Recording</th></tr>
<tr><td>207 subtract 82</td><td> 
Base 10 material is
used to support renaming</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>2</td><td>0</td><td>7</td></tr>
<tr><td>—</td><td></td><td>8</td><td>2</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td colspan="2">Subtract the ones
7 ones. Can you take away 2 ones?
Yes, there is no need to rename
7 ones take away 2 ones is 5 ones</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>2</td><td>0</td><td>7</td></tr>
<tr><td>—</td><td></td><td>8</td><td>2</td></tr>
<tr><td></td><td></td><td></td><td>5</td></tr>
</table>
</td></tr>
<tr><td colspan="2">Subtract the tens
0 tens. Can you take away 8 tens?
No. There are not enough tens so you need to rename
Rename 2 hundreds and 0 tens as 1 hundred and 10 tens
10 tens. Can you take away 8 tens?
Yes. 2 tens</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td>1</td><td>10</td><td></td></tr>
<tr><td></td><td>2̸</td><td>0̸</td><td>7</td></tr>
<tr><td>—</td><td></td><td>8</td><td>2</td></tr>
<tr><td></td><td></td><td>2</td><td>5</td></tr>
</table>
</td></tr>
<tr><td colspan="2">Subtract the hundreds
1 hundred. Can you take away 0 hundreds?
Yes, there is no need to rename
1 hundred take away 0 hundreds is 1 hundred</td><td>
<table>
<tr><td></td><td>H</td><td>T</td><td>O</td></tr>
<tr><td></td><td>1</td><td>10</td><td></td></tr>
<tr><td></td><td>2̸</td><td>0̸</td><td>7</td></tr>
<tr><td>—</td><td></td><td>8</td><td>2</td></tr>
<tr><td></td><td>1</td><td>2</td><td>5</td></tr>
</table>
</td></tr>
<tr><td colspan="3">207 subtract 82 is 125</td></tr>
</table>

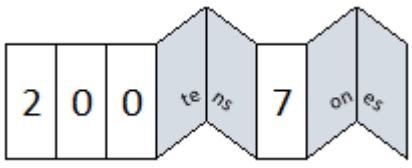
Subtraction script (Decomposition method with internal zeros #2)

Language (Script)	Materials	Recording
207 subtract 89	 *A number expander is used to support renaming*	
Subtract the ones 7 ones. Can you take away 9 ones? No. There are not enough ones so you need to rename Rename 20 tens and 7 ones as 19 tens and 17 ones 17 ones. Can you take away 9 ones? Yes. 8 ones		
Subtract the tens 9 tens. Can you take away 8 tens? Yes, there is no need to rename 9 tens take away 8 tens is 1 ten		
Subtract the hundreds 1 hundred. Can you take away 0 hundreds? Yes, there is no need to rename 1 hundred take away 0 hundreds is 1 hundred		
207 subtract 89 is 118		

Note:

If you were subtracting 89 from 2007, a number expander would be useful to assist students in recognising that there are 200 tens in 2007… and that the number could be renamed as 199 tens and 17 ones so as to facilitate the subtraction.





Based on George Booker (2014). Language/script modified by Donald Eddington (2016)