

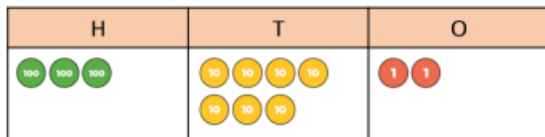
**YEAR 3**

**Subtraction**

Vocabulary: Hundreds, tens, ones, estimate, partition, recombine, difference, decrease, near multiple of 10 and 100, inverse, rounding, column subtraction, exchange (see previous years groups)

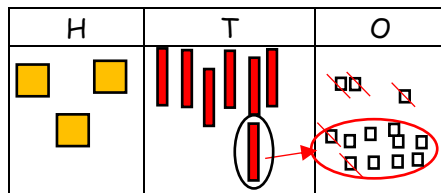
**Concrete**

**Subtracting 100s, 10s and 1s no exchanging:**  
(Use diennes or place value counters).



$372 - 1$      $372 - 40$      $372 - 200$

**Subtracting 100s, 10s and 1s exchanging:**  
 $373 - 5 = 368$



1 ten = 10 ones  
(For  $372 - 80$  then exchange 1 hundred for 10 tens).

**Pictorial**

**Subtracting 100s, 10s and 1s no exchanging:**  
Use diennes notation:

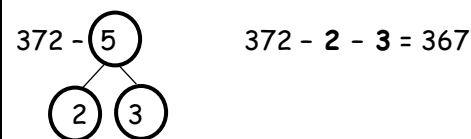
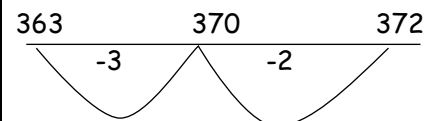
$372 - 1$



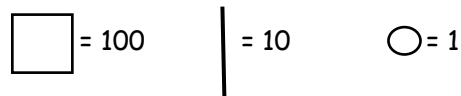
Then  $372 - 40$      $372 - 200$

**Subtracting 100s, 10s and 1s exchanging:**  
Counting back:

$372 - 5 = 368$



Use diennes jottings for subtraction where:



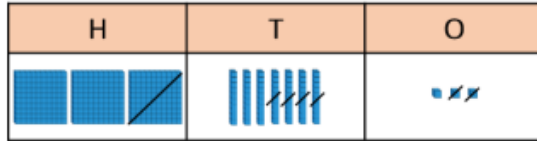
**Abstract**

No written method.

**Subtracting 3-digit numbers:**

**No exchanging:**

$373 - 142 = 231$

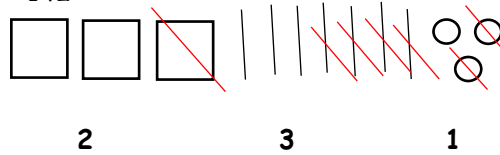


**Subtracting 3-digit numbers:**

**Diennes jottings:**

**No exchanging:**

$373 - 142$



<b>373</b>	
?	<b>142</b>

**Written**

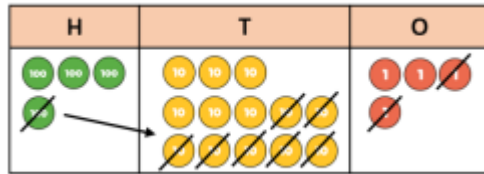
**Subtracting 3-digit numbers:**

**No exchanging:**

$\begin{array}{r} 300 & 70 & 3 \\ \underline{100} & \underline{40} & \underline{2} \\ 200 & 30 & 1 \end{array}$	→	$\begin{array}{r} 373 \\ \underline{-142} \\ 231 \end{array}$
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**Exchanging:**

$434 - 72$



Exchange at different points e.g:

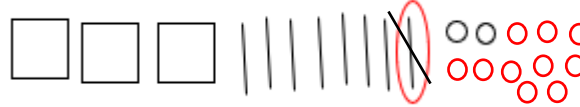
$541 - 227$ ;  $627 - 385$

Extending to exchanging at several different points e.g:

$714 - 346$

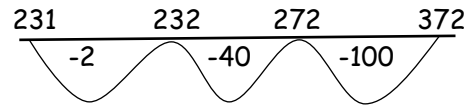
**Exchanging:**

$382 - 153$  (exchanging)



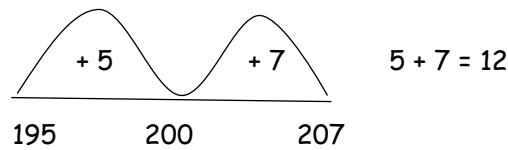
**Counting back:**

$372 - 142 = 231$



**Counting on:**

$207 - 195$  for numbers with small differences.



**Exchanging:**

Tens to ones	Hundreds to tens
$\begin{array}{r} 300 & 80 & 12 \\ \underline{100} & \underline{50} & \underline{3} \\ 200 & 20 & 9 \end{array}$	$\begin{array}{r} 300 \\ \underline{-400} & 130 & 4 \\ & \underline{70} & \underline{2} \\ 300 & 60 & 2 \end{array}$

## Mental

### Counting back:

$$164 - 40 = 124$$

(counting back in tens: 154, 144, 134, 124)

$$356 - 23$$

(356 - 20 then -3)

$$375 - 47$$

(375 - 40, - 5 then - 2)

### Counting on (finding the difference)

For numbers close together

$$102 - 97 = 5$$

$$97 + 3 = 100, 100 + 2 = 102$$

$$\text{Then } 3 + 2 = 5$$

$$325 - 280 = 45$$

$$280 + 20 = 300, 300 + 25 = 325$$

$$\text{Then } 20 + 25 = 45$$

### Using Known Facts and Place Value:

$$268 - 5$$

$$8 - 5 = 3 \text{ so } 268 - 5 = 263$$

$$600 - 300$$

$$6 - 3 = 3; 60 - 30 \text{ so } 600 - 300 = 300$$

### Partitioning:

$$567 - 235$$

$$567 (- 200 - 30 - 5)$$

### Adjusting:

$$324 - 99$$

(add 1 to both numbers)

$$325 - 100 = 225$$

$$456 - 298$$

(add 2 to both numbers)

$$458 - 300 = 158$$