

# Year 3 Addition and Subtraction

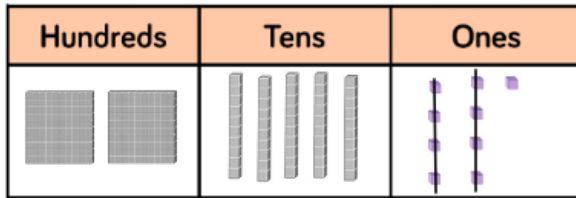
## 3-digit and 1-digit numbers

Not crossing 10

$$234 + 5 = 239$$



$$259 - 8 = 251$$



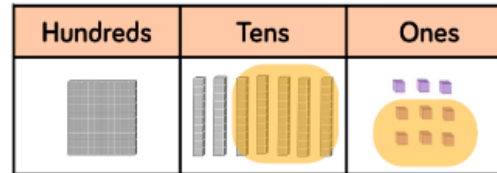
Crossing 10 (Exchanging)

## 3-digit and 2 digit numbers

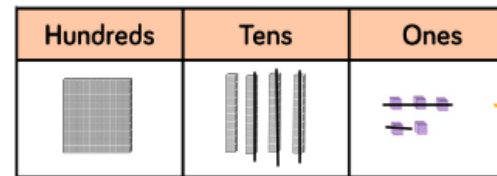
Not Crossing

$$123 + 56 = 179$$

+ 5 tens      + 6 ones



$$145 - 34 = 111$$



Crossing 10 and 100 (Exchanging)

$$158 + 67 = 225$$

First, we add 8 ones and 7 ones to get 15 ones. 10 ones are exchanged for 1 ten.

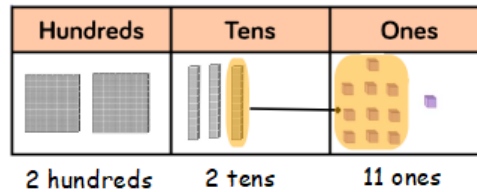
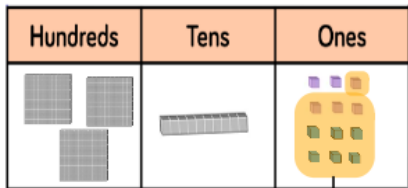
Next, we add 5 tens, 6 tens and the 1 ten we exchanged to get 12 tens. Exchange 10 tens for 1 hundred,

Finally, we add 1 hundred to the hundred we exchanged to get 2 hundreds.

	1	5	8		1	5	8		1	5	8
+		6	7	+		6	7	+		6	7
			5			2	5			2	5
		1			1	1			1	1	

$$316 + 6 = 322$$

$$231 - 7 = 224$$



1 ten is exchanged for 10 ones so we have 11 ones.

6 ones have been added to make 12 ones.

So now we need to exchange 10 ones for 1 ten.

	3	1	6
+			6
	3	2	2
		1	

Ten ones exchanged for 1 ten and moved into the tens column.

	2	<del>3</del>	1
-			7
	2	2	4

### Key Vocabulary

add +	number bonds
sum	facts
subtract -	inverse
minus	commutative
difference	estimate
equals =	exchange
total	column
digit	operations
	complements

$$242 - 59 = 183$$

First, we can't do 2 ones subtract 9 ones so we exchange 1 ten for 10 ones to make 12 ones.

Next, we can't do 3 tens subtract 5 tens so we exchange 1 hundred for 10 tens to make 13 tens.

Finally, we subtract 0 hundreds from 1 hundred leaving us with the answer 183.

	2	<del>4</del>	2		2	<del>4</del>	2		2	<del>4</del>	2	
-		5	9	-		5	9	-		5	9	
			3			8	3			1	8	3

# Year 3 Addition and Subtraction

Key Vocabulary	
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subtract -	inverse
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equals =	<b>exchange</b>
total	<b>column</b>
digit	<b>operations</b>
	<b>complements</b>

## 3- digit numbers

Not crossing

$$256 - 134 = 122$$

Hundreds	Tens	Ones

## Crossing 10 and 100 (Exchanging)

1	7	9
+	3	6
-----		
5	4	6
1	1	

<del>3</del>	<del>12</del>	<del>1</del>
-	3	4
-----		
0	8	4

## Add and Subtract 100s

$$158 + 200 = 358$$

Hundreds	Tens	Ones

Only the hundred column changes.



## Using the Inverse

You can use the inverse operation to check answers are correct.



$$309 - 64 = 255$$



$$255 + 64 = 309$$

## Estimate

$$152 + 69 = ?$$



$$150 + 70 = 220$$

Find near numbers to estimate answers to calculations.



$$415 + 89 = ?$$



$$400 + 100 = 500$$