

# Year 5 Addition and Subtraction

## Column Addition and Subtraction

### Key Vocabulary

add +

sum

subtract -

minus

difference

equals =

total

number bonds

facts

inverse

digit

commutative

estimate

exchange

operations

complements

column

methods

	1	4	7	5	3
+	8	4	1	3	6
<hr/>					
	9	8	8	8	9

Add each column in turn, starting with the ones.

	6	8	6	3	9
-	5	4	3	2	8
<hr/>					
	1	4	3	1	1

Subtract each column in turn, starting with the ones.

	2	6	1	5	1
+	3	3	6	6	7
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	5	9	8	1	8
			1		

Add each column in turn, starting with the ones. Here there are 5 tens and 6 tens which make 11 tens. Exchange 10 tens for 1 hundred and move it over to the hundred column.

	5	6	9	<del>4</del> <sup>3</sup>	<del>2</del> <sup>12</sup>
-		5	7	2	9
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	5	1	2	1	3

Subtract each column in turn starting with the ones. Here we can't take 9 ones away from 2 ones so we exchange 1 ten for 10 ones to make 12 ones.

	4	1	7	5	3
+	3	9	4	8	5
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	8	1	2	3	8
	1	1	1		

When adding numbers with more than one exchange follow the same process as above.

Make sure you remember to add the values you have exchanged.

	5	<del>2</del> <sup>1</sup>	<del>4</del> <sup>13</sup>	<del>9</del> <sup>12</sup>	
-		2	1	5	9
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	3	0	8	3	

When subtracting numbers with more than one exchange follow the same process as above.

## Efficient Subtraction

$$4000 - 1272$$



$$4000 - 1000 = 3000$$

$$3000 - 200 = 2800$$

$$2800 - 70 = 2730$$

$$2730 - 2 = 2728$$

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## Using the Inverse to Check Answers

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



$$3309 - 2464 = 845 \quad 3309 - 845 = 2464$$

$$2464 + 845 = 3309 \quad 845 + 2464 = 3309$$

## Using the Inverse to Solve Problems

I'm thinking of a number. I add 1542 and then subtract 220. My answer is 1330. What was my original number?

To work this out, do the inverse.

$$1330 + 220 = 1550$$

$$1550 - 1542 = 8$$

The original number is 8.

## Rounding to Estimate

$$12468 + 1391 = 13859$$

Round to the nearest 10

$$12470 + 1390 = 13860$$

Round to the nearest 100

$$12500 + 1400 = 13900$$

Rounding to estimate gives you a good idea of what the answer will be close to.

Here rounding to the nearest 10 gives you the most accurate estimate.

$$3564 - 1391 = 2173$$

Round to the nearest 100

$$3600 - 1400 = 2200$$

Round to the nearest 1000

$$4000 - 1000 = 3000$$

Here rounding to the nearest 100 gives you the most accurate estimate.



## Multistep Problems

A baker bakes 243 loaves of bread on Friday and 154 on Saturday. Over the two days, he sells 304 loaves of bread. How many loaves does he have left over?



To solve this we first need to work out how many loaves the baker baked altogether.

$$243 + 154 = 397$$

Then we need to subtract the amount of loaves he sold.

$$397 - 304 = 93$$

The baker has 93 loaves left over.