

Year 4 Addition and Subtraction

Key Vocabulary

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

Column Addition and Subtraction

	4	7	5	3
+	4	1	3	6
	8	8	8	9

Add each column in turn, starting with the ones.

	8	6	3	9
-	4	3	2	8
	4	3	1	1

Subtract each column in turn, starting with the ones.

	6	1	5	1
+	3	6	6	7
	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.

	6	9	4 ³	2 ¹²
-	5	7	2	9
	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.

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

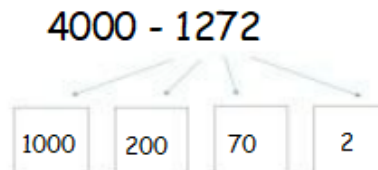
When adding numbers with more than one exchange follow the same process as above.

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

	5	2 ¹	4 ¹³	2 ¹²
-	2	1	5	9
	3	0	8	3

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

Efficient Subtraction



$$4000 - 1000 = 3000$$

$$3000 - 200 = 2800$$

$$2800 - 70 = 2730$$

$$2730 - 2 = 2728$$

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Add and Subtract 1s, 10s, 100s and 1000s

Thousands	Hundreds	Tens	Ones
4	3	2	6

Not crossing 1s, 10s and 100s

$4326 + 3 = 4329$	$4326 - 5 = 4321$
$4326 + 70 = 4396$	$4326 - 20 = 4306$
$4326 + 500 = 4826$	$4326 - 100 = 4226$
$4326 + 2000 = 6326$	$4326 - 3000 = 1326$

When not crossing 1s, 10s or 100s, you only change the column you are adding to or subtracting from.



Crossing 1s, 10s and 100s

$3579 + 8 = 3587$	$4387 - 9 = 4378$
$4568 + 50 = 4618$	$9612 - 90 = 9522$
$7942 + 400 = 8342$	$3648 - 700 = 2948$



When crossing 1s, 10s or 100s more than one digit will change

Rounding to Estimate

$$1468 + 1391 = 2859$$

$$3564 - 1391 = 2173$$

Round to the nearest 10

$$1470 + 1390 = 2860$$

Round to the nearest 100

$$3600 - 1400 = 2200$$

Round to the nearest 1000

$$1500 + 1400 = 2900$$

Round to the nearest 1000

$$4000 - 1000 = 3000$$

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.



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

Using the Inverse

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



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

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