

LESSON 2

- Can I solve subtractions with numbers up to four digits? (Part 2)

Fast five

1) Place these in order lowest to highest: 2783, 2873, 2378, 2738

2) $4675 + 1297 =$

3) $25 \times 14 =$

4) How many edges does a cube have?

5) $18.26 + 34.25 =$

Fast five Answers

1) Place these in order lowest to highest: 2783, 2873, 2378, 2738

2378, 2738, 2783, 2873

2) $4675 + 1297 = 5972$

3) $25 \times 14 = 350$

4) How many edges does a cube have? 12

5) $18.26 + 34.25 = 52.51$

$$2564 - 2357 =$$

Once the numbers are in the correct positions, we subtract the numbers in each column!

	Th	H	T	O
	2	5	6	4
-	2	3	5	7

We start on the right side (the ones column)

We cannot do $4 - 7$ without getting a negative number.

We therefore **regroup** and take one of the tens and add it to the 4 ones to make 14 ($10 + 4 = 14$).

This reduces the number in the tens column from 6 to 5 .

$$2564 - 2357 = 207$$

Th	H	T	O
2	5	5 6	14 4
2	3	5	7
0	2	3	7

$$\begin{aligned} 14 - 7 &= 7 \\ 5 - 5 &= 0 \\ 5 - 3 &= 2 \\ 2 - 2 &= 0 \end{aligned}$$

$1910 - 299 =$

Once the numbers are in the correct positions, we subtract the numbers in each column!

	Th	H	T	O
	1	9	1	0
-		2	9	9

Here 0 – 9 cannot be done and so we regroup.

We take the ten and regroup it (0 + 10 = 10)

We are now left with 0 tens left.

$1910 - 299 =$

Th	H	T	O
1	9	0 1	10
-	2	9	9
			1

$10 - 9 = 1$

$1910 - 299 =$

	Th	H	T	O
	1	9	0	10
-		2	9	9
				1

$10 - 9 = 1$

Here though we are left with the same problem again.

0 – 9 cannot be done and so we regroup again.

We take one of the hundreds and regroup it (0 + 10) = 10

We are now left with 8 tens left.

$1910 - 299 =$

	Th	H	T	O
	1	9	1	0
-		2	9	9
				1

$$1910 - 299 = 1611$$

Th	H	T	O
1	8	9	0
	2	9	9
1	6	1	1

$$\begin{array}{r} 10 - 9 = 1 \\ 10 - 9 = 1 \\ 8 - 2 = 6 \\ 1 - 0 = 1 \end{array}$$

We start on the right side (the ones column)

We cannot do $5 - 6$ without getting a negative number.

We therefore **regroup** and take one of the tens and add it to the 5 ones to make 15 ($10 + 5 = 15$).

This reduces the number in the tens column from 4 to 3 .

$$5645 - 5456 =$$

Th	H	T	O
5	6	4	5
5	4	5	6

We start on the right side (the ones column)

We cannot do $5 - 6$ without getting a negative number.

We therefore **regroup** and take one of the tens and add it to the 5 ones to make 15 ($10 + 5 = 15$).

This reduces the number in the tens column from 4 to 3 .

$$5645 - 5456 =$$

Th	H	T	O
5	6	3 4	15
$-$ 5	4	5	6
			9

$$15 - 6 = 9$$

We start on the right side (the ones column)

We cannot do $3 - 5$ without getting a negative number.

We therefore **regroup** and take one of the hundreds and add it to the 3 tens to make 13 ($10 + 3 = 13$).

This reduces the number in the tens column from 6 to 5 .

$$5645 - 5456 =$$

Th	H	T	O
5	⁵ 6	3 4	5
5	4	5	6
			9

We start on the right side (the ones column)

We cannot do $3 - 5$ without getting a negative number.

We therefore **regroup** and take one of the hundreds and add it to the 3 tens to make 13 ($10 + 3 = 13$).

This reduces the number in the tens column from 6 to 5 .

$$5645 - 5456 = 189$$

Th	H	T	O
5	5 6	13 4	5
5	4	5	6
0	1	8	9

$$\begin{aligned} 13 - 5 &= 8 \\ 5 - 4 &= 1 \\ 5 - 5 &= 0 \end{aligned}$$

Subtraction when using zeros

- <https://safeYouTube.net/w/UKL3>

We start on the right side looking at the ones.

However, $0 - 7$ cannot be done.

So we need to regroup.

However, there are 0 tens.

We therefore have to regroup **one of the hundreds** into tens and then **into ones**.

$1900 - 687 =$

	Th	H	T	O
	1	9	0	0
-	0	6	8	7

We start on the right side looking at the ones.

However, 0 – 7 cannot be done.

So we need to regroup. However, there are 0 tens.

We therefore have to regroup one of the hundreds into tens and then into ones.

The hundreds go down from 9 to 8.

The tens go up from 0 to 10 and then down from 10 to 9.

$1900 - 687 =$

	Th	H	T	O
	1	8 9	9 10	1 0
-	0	6	8	7

$$1900 - 687 = 1213$$

Th	H	T	O
1	8 ⁹	9 ¹⁰	¹ 0
0	6	8	7
1	2	1	3

$$\begin{aligned} 10 - 7 &= 3 \\ 9 - 8 &= 1 \\ 8 - 6 &= 2 \\ 1 - 0 &= 1 \end{aligned}$$

On scrap paper practice this question.

$3654 - 3467 =$

	Th	H	T	O
	3	6	5	4
-	3	4	6	7

On scrap paper practice this question.

$$3654 - 3467 = 187$$

$$14 - 7 = 7$$

$$14 - 6 = 8$$

$$5 - 4 = 1$$

$$3 - 3 = 0$$

	Th	H	T	O
	3	56	145	14
-	3	4	6	7
	0	1	8	7

On scrap paper practice this question.

$2904 - 1875 =$

	Th	H	T	O
	2	9	0	4
-	1	8	7	5

On scrap paper practice this question.

$$2904 - 1875 = 1029$$

$$14 - 5 = 9$$

$$9 - 7 = 2$$

$$8 - 8 = 0$$

$$2 - 1 = 1$$

Th	H	T	O
2	89	910	14
1	8	7	5

Activity:

Solve the questions from the question sheet. Try to challenge yourself.

Tips:

Ensure you have the numbers in **place order** to start with.

When subtracting, **start** on the **right** (ones) before moving left.

Don't forget that if you complete a subtraction and get a negative number – **regroup**.