

Four Digit Subtraction- Guided Lesson Explanation**Explanation#1**

First we subtract right to left digit so that $1 - 1 = 0$. Write down 0

$$\begin{array}{r} 4 \quad 8 \quad 3 \quad 1 \\ - 3 \quad 2 \quad 0 \quad 1 \\ \hline \mathbf{0} \end{array}$$

Then we subtract $3 - 0 = 3$. Write down 3

$$\begin{array}{r} 4 \quad 8 \quad 3 \quad 1 \\ - 3 \quad 2 \quad 0 \quad 1 \\ \hline \mathbf{3} \quad \mathbf{0} \end{array}$$

Then we subtract $8 - 2 = 6$. Write down 6

$$\begin{array}{r} 4 \quad 8 \quad 3 \quad 1 \\ - 3 \quad 2 \quad 0 \quad 1 \\ \hline \mathbf{6} \quad \mathbf{3} \quad \mathbf{0} \end{array}$$

Now we subtract $4 - 3 = 1$. So we get 1

$$\begin{array}{r} 4 \quad 8 \quad 3 \quad 1 \\ - 3 \quad 2 \quad 0 \quad 1 \\ \hline \mathbf{1} \quad \mathbf{6} \quad \mathbf{3} \quad \mathbf{0} \end{array}$$

So the answer is 1630

Explanation#2

First we subtract right to left digit so that $6 - 0 = 6$. Write down 6

$$\begin{array}{r} 2 \quad 5 \quad 8 \quad 6 \\ - 1 \quad 9 \quad 9 \quad 0 \\ \hline \mathbf{6} \end{array}$$



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Then we subtract $8 - 9$. So we cannot subtract 9 from 8

In 2586

The "6" means 6 units, the "8" means 8 tens, the "5" means 5 hundred, the "2" means 2 thousand, so that:

Reduce 5 by 1

Increase 8 by 10

We borrow 1 tens (1 tens = 10 units) from 5 so we can calculate

$10 + 8 = 18$. And subtract $18 - 9 = 9$

$$\begin{array}{r} 2 \quad 5 \quad 8 \quad 6 \\ - 1 \quad 9 \quad 9 \quad 0 \\ \hline \quad \quad \mathbf{9} \quad \mathbf{6} \end{array}$$

In the 5 hundred we borrow 1 tens i.e. $5 - 1 = 4$. Now we have to subtract 9 from 4. We cannot subtract bigger number from smaller. so that:

Reduce 2 by 1

Increase 4 by 10

We borrow 1 tens (1 tens = 10 units) from 2 so we can calculate

$10 + 4 = 14$. And subtract $14 - 9 = 5$

$$\begin{array}{r} 2 \quad 5 \quad 8 \quad 6 \\ - 1 \quad 9 \quad 9 \quad 0 \\ \hline \quad \mathbf{5} \quad \mathbf{9} \quad \mathbf{6} \end{array}$$

In the 2 thousand we borrow 1 tens i.e. $2 - 1 = 1$. So we subtract $1 - 1 = 0$

$$\begin{array}{r} 2 \quad 5 \quad 8 \quad 6 \\ - 1 \quad 9 \quad 9 \quad 0 \\ \hline \mathbf{0} \quad \mathbf{5} \quad \mathbf{9} \quad \mathbf{6} \end{array}$$

So the answer is 596.



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Explanation#3

First we subtract right to left digit so that $5 - 3 = 2$. Write down 2

$$\begin{array}{r} 2 \quad 6 \quad 1 \quad 5 \\ - \quad 2 \quad 3 \quad 2 \quad 3 \\ \hline \mathbf{2} \end{array}$$

Then we subtract $1 - 2$. We cannot 2 from 1.

In 2615

The "5" means 5 units, the "1" means 1 tens, the "6" means 6 hundred, the "2" means 2 thousand, so that:

Reduce 6 by 1

Increase 1 by 10

We borrowing 1 tens (1 tens = 10 units) from 6 so we can calculate

$10 + 1 = 11$. And subtract $11 - 2 = 9$

$$\begin{array}{r} 2 \quad 6 \quad 1 \quad 5 \\ - \quad 2 \quad 3 \quad 2 \quad 3 \\ \hline \mathbf{9} \quad \mathbf{2} \end{array}$$

In the 6 hundred we borrow 1 tens i.e. $6 - 1 = 5$. So we subtract $5 - 3 = 2$

$$\begin{array}{r} 2 \quad 6 \quad 1 \quad 5 \\ - \quad 2 \quad 3 \quad 2 \quad 3 \\ \hline \mathbf{2} \quad \mathbf{9} \quad \mathbf{2} \end{array}$$

Now we subtract $2 - 2 = 0$

$$\begin{array}{r} 2 \quad 6 \quad 1 \quad 5 \\ - \quad 2 \quad 3 \quad 2 \quad 3 \\ \hline \mathbf{0} \quad \mathbf{2} \quad \mathbf{9} \quad \mathbf{2} \end{array}$$

So the answer is 292

