

STANDARD:

NC.4.NBT.4

Add and subtract multi-digit whole numbers up to and including 100,000 using the standard algorithm with place value understanding.

OBJECTIVE:

Today, we will use place value and an algorithm to subtract whole numbers.



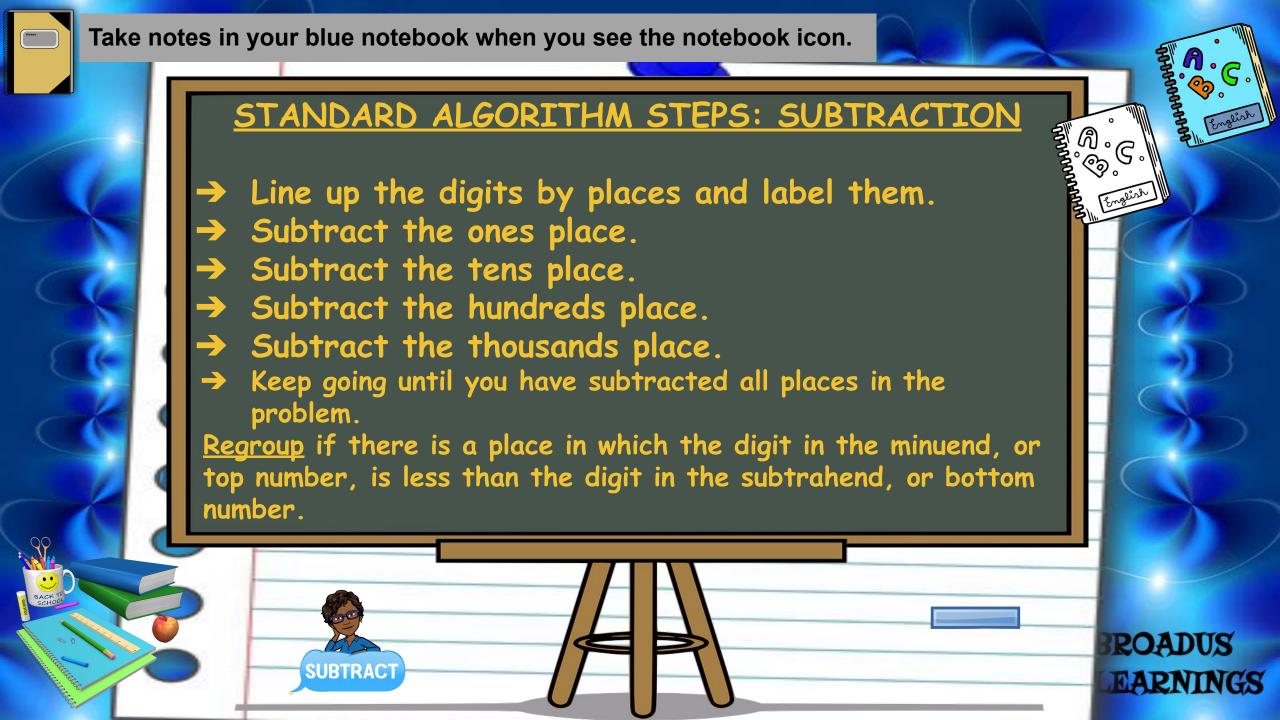
I CAN STATEMENT:

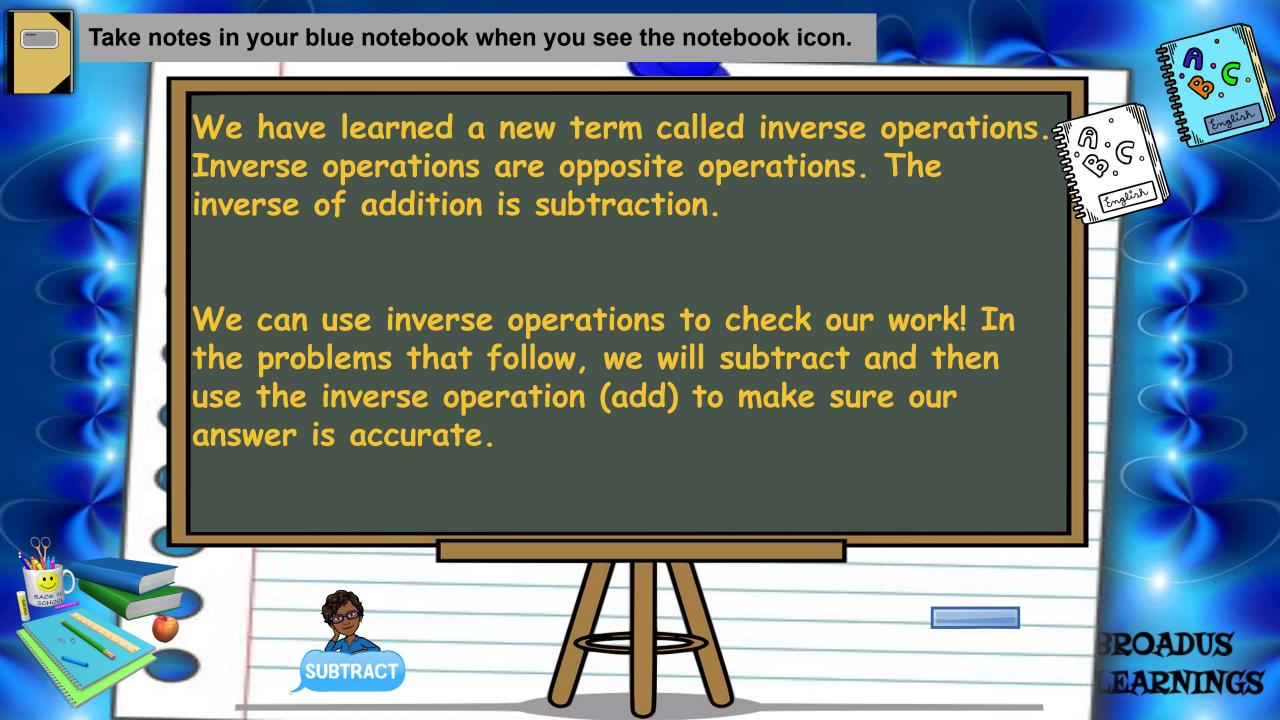
I can use the standard algorithm and place-value to subtract whole numbers.

ESSENTIAL QUESTION:

How do you subtract greater numbers efficiently?







Subtract, then use the inverse operation to check your work.

Estimate to check if the difference is reasonable. 4,387 - 3,359

Th H T O

Line up by place value.

The larger number (greatest value) goes on top. MINUEND

The number you are subtracting goes on the bottom. SUBTRAHEND

4 387

- <u>3,359</u>

1. Subtract the ones place.
Regroup if needed.

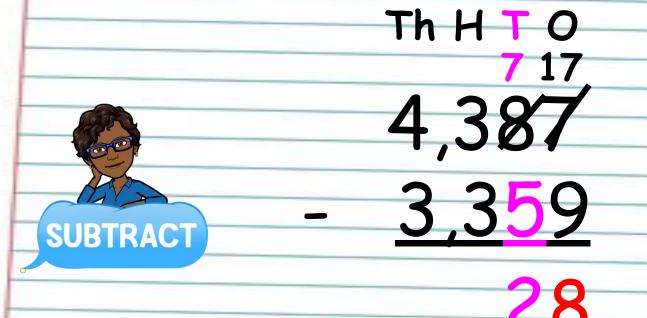
SUBTRACT

Regroup: 8 tens + 7 ones = 7 tens + 17 ones

17 ones - 9 ones = 8 ones



Subtract, then use the inverse operation to check your work.
Estimate to check if your answers are reasonable.



2. Subtract the tense place.
Regroup if needed.

 \bigcirc 7 tens - 5 tens = 2 tens

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No regrouping needed because the minuend is greater than the subtrahend.

Subtract, then use the inverse operation to check your work.
Estimate to check if your answers are reasonable.

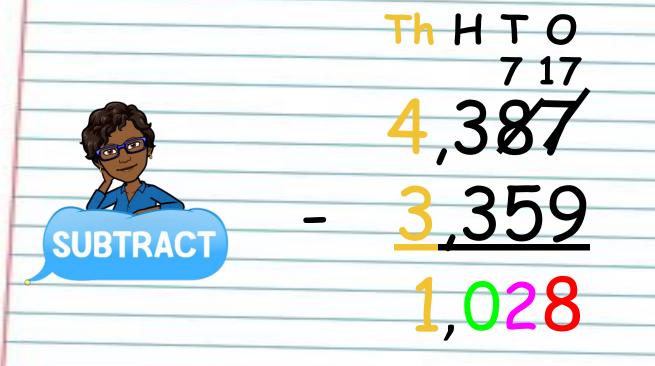
Th H T 0
7 17
4,387

SUBTRACT - 3,359

Subtract the hundreds place.
 Regroup if needed.

3 hundreds - 3 hundreds = 0 hundreds
No regrouping needed because the minuend is greater than the subtrahend.

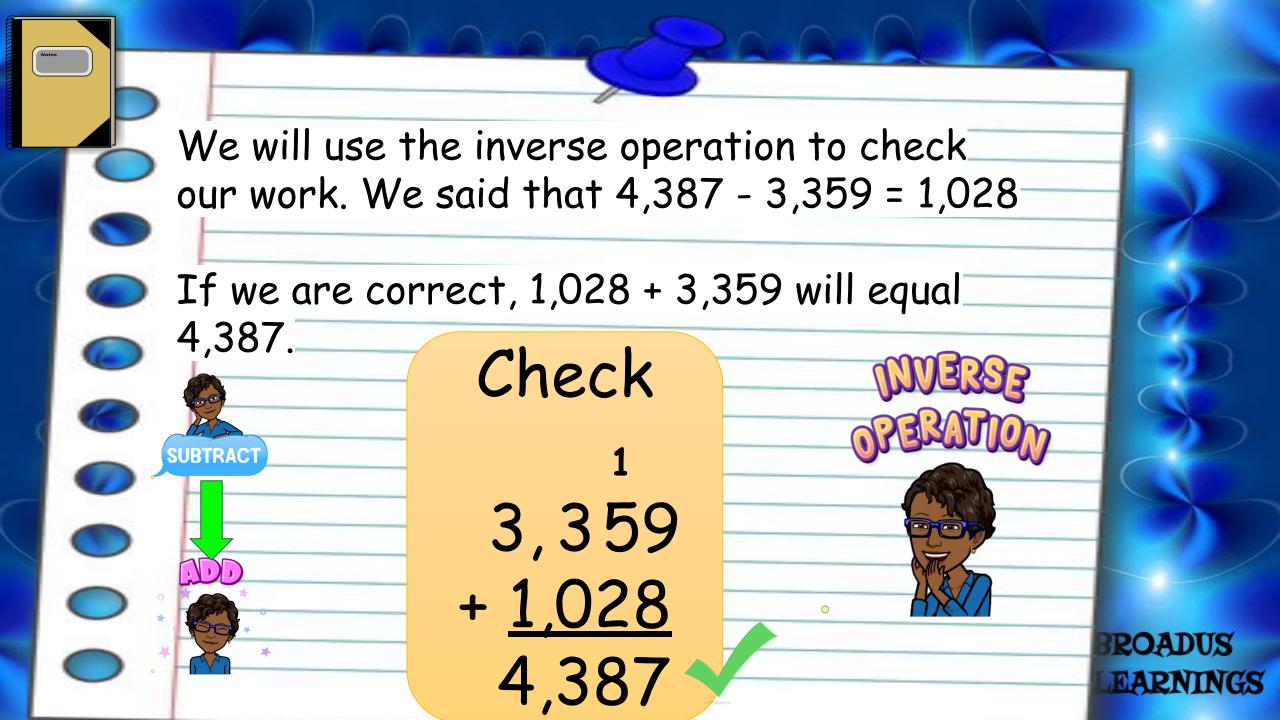
POADUS EARNINGS Subtract, then use the inverse operation to check your work.
Estimate to check if your answers are reasonable.



Subtract the thousands place.
 Regroup if needed.

4 thousands - 3 thousands = 0 thousands
No regrouping needed because the minuend is greater than the subtrahend.

POADUS EARNINGS



Remember your rounding rules!

This problem is rounded to the nearest thousands. So-1,028 is reasonable.

Line up by place value.

The larger number (greatest value) goes on top. MINUEND

The number you are subtracting goes on the bottom. SUBTRAHEND

Th H T O

7,278

- <u>998</u>

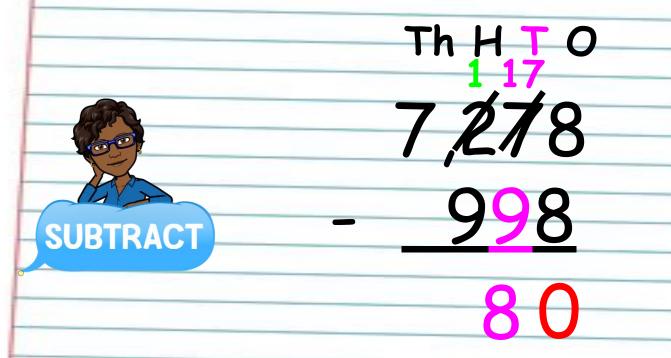
0

1. Subtract the ones place.
Regroup if needed.

SUBTRACT

8 ones - 8 ones = 0 ones

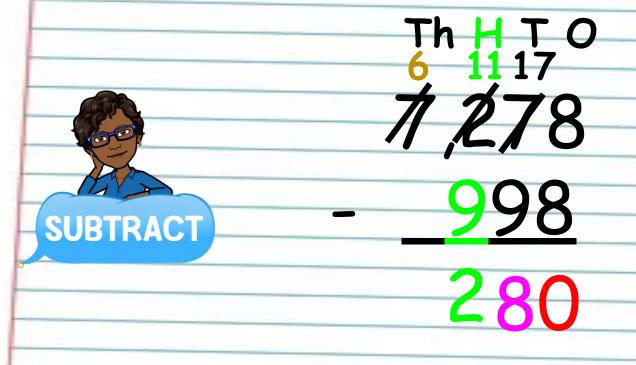
No regrouping needed because the minuend is greater than the subtrahend.



1. Subtract the tens place.
Regroup if needed.

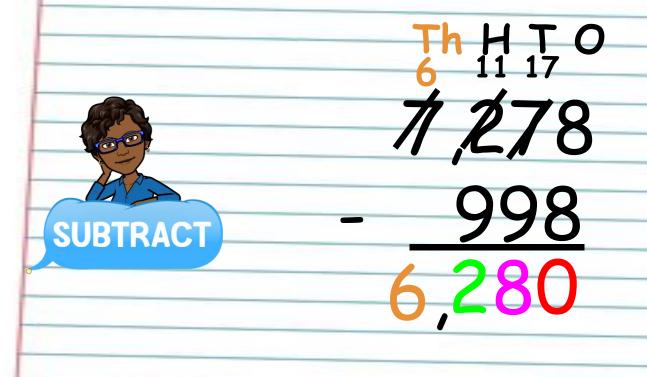
Regroup: $\frac{2}{2}$ hundreds + $\frac{7}{2}$ tens = $\frac{1}{2}$ hundred + $\frac{17}{2}$ tens

17 tens - 9 tens = 8 ones



1. Subtract the hundreds place.
Regroup if needed.

Regroup: 7 thousands + 1 hundred = 6 thousands + 11 thousands 11 hundreds - 9 hundreds = 2 hundreds

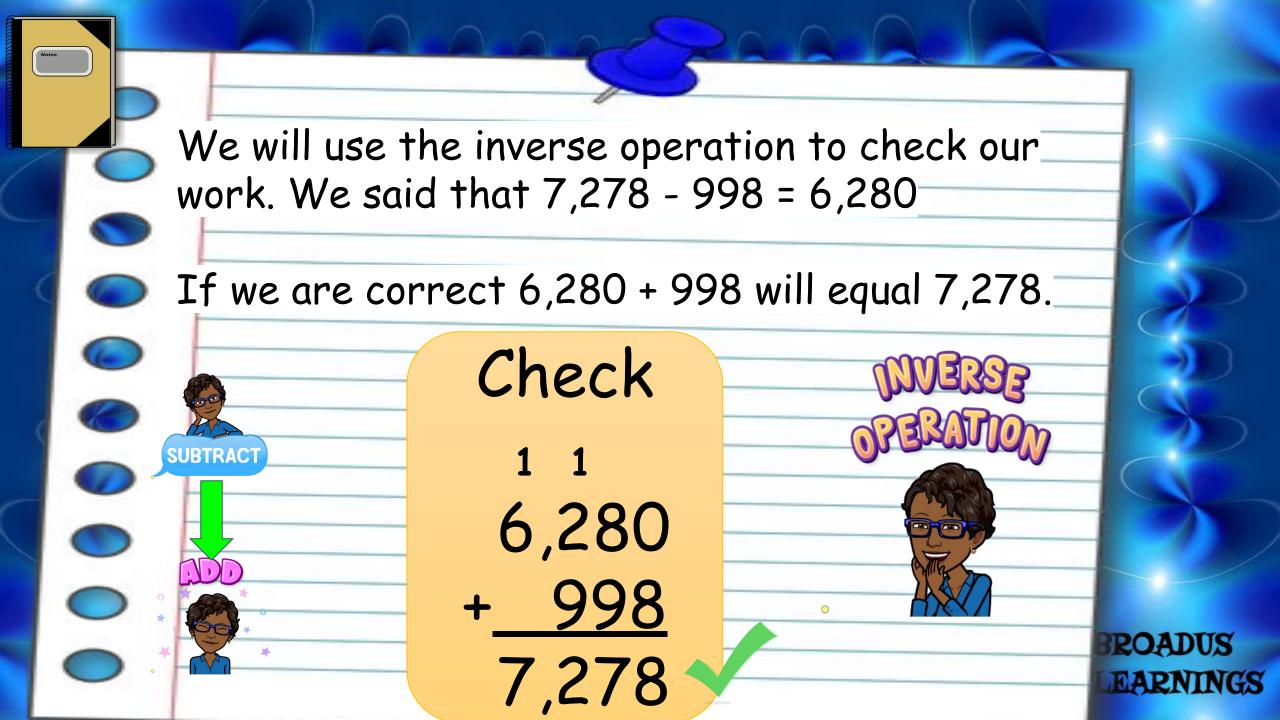


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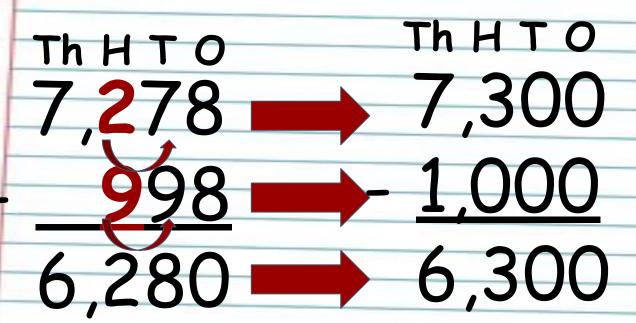
1. Subtract the thousands place.
Regroup if needed.

Regroup: 6 thousands - 0 thousands = 6 thousands

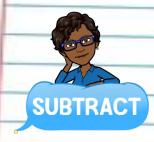
No regrouping needed because the minuend is greater than the subtrahend.



Remember your rounding rules!



This problem is rounded to the nearest hundreds. So 6,280 is reasonable.



Tth Th H T O

Line up by place value.

The larger number (greatest value) goes on top. MINUEND

The number you are subtracting goes on the bottom. SUBTRAHEND

74,765

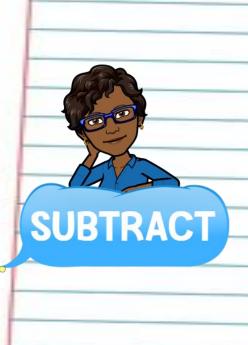
- <u>26,591</u>

4

1. Subtract the ones place.
Regroup if needed.

5 ones - 1 one = 4 ones

No regrouping needed because the minuend is greater than the subtrahend.



Tth Th H T O
6 16

74/1/65

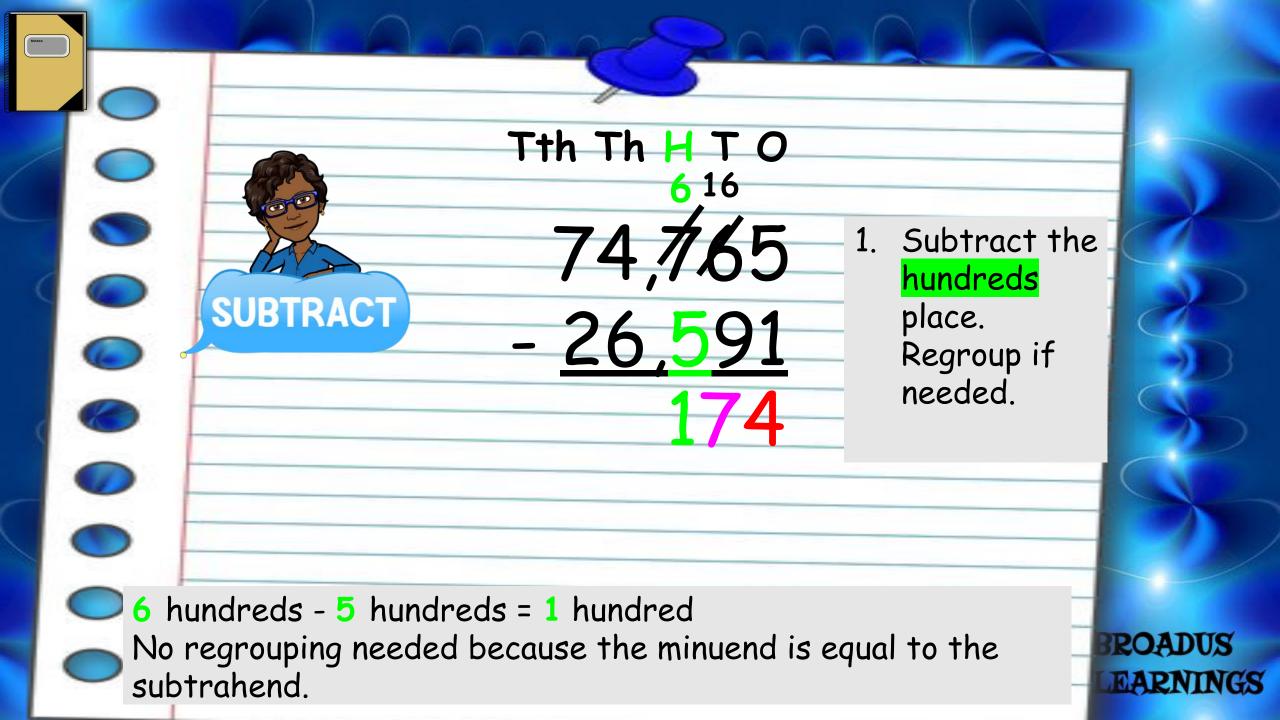
- <u>26,591</u>

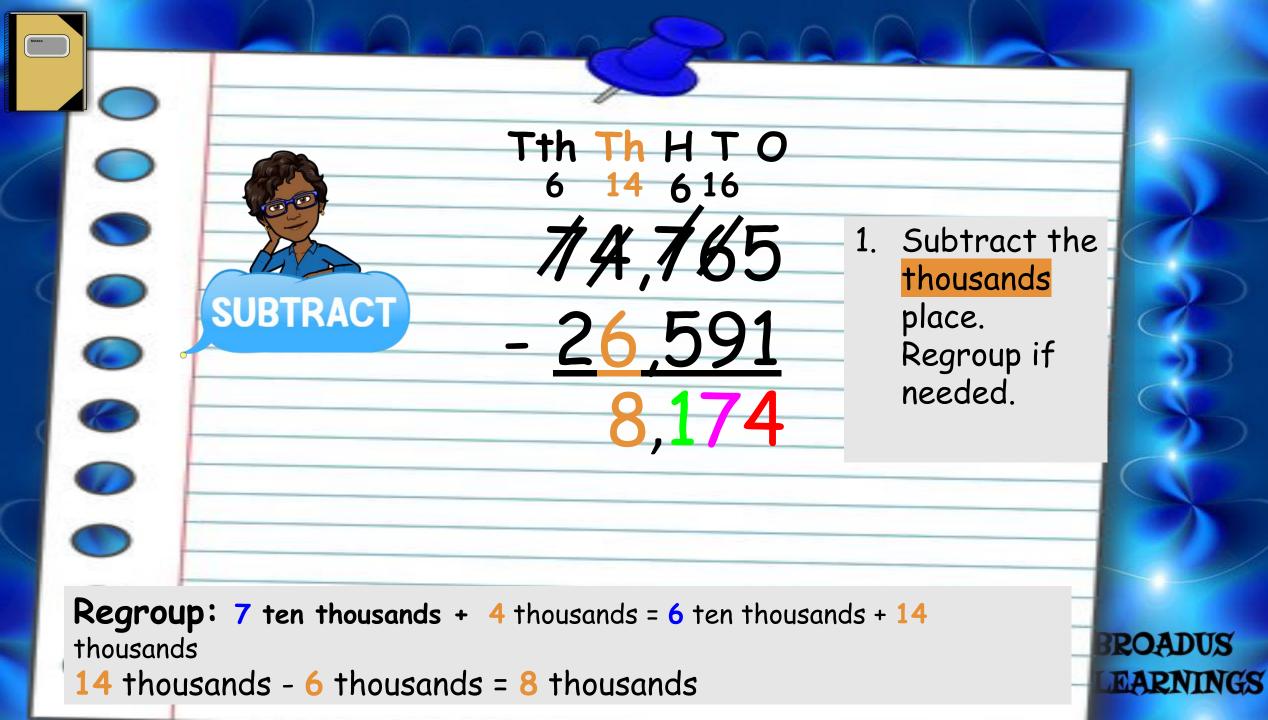
74

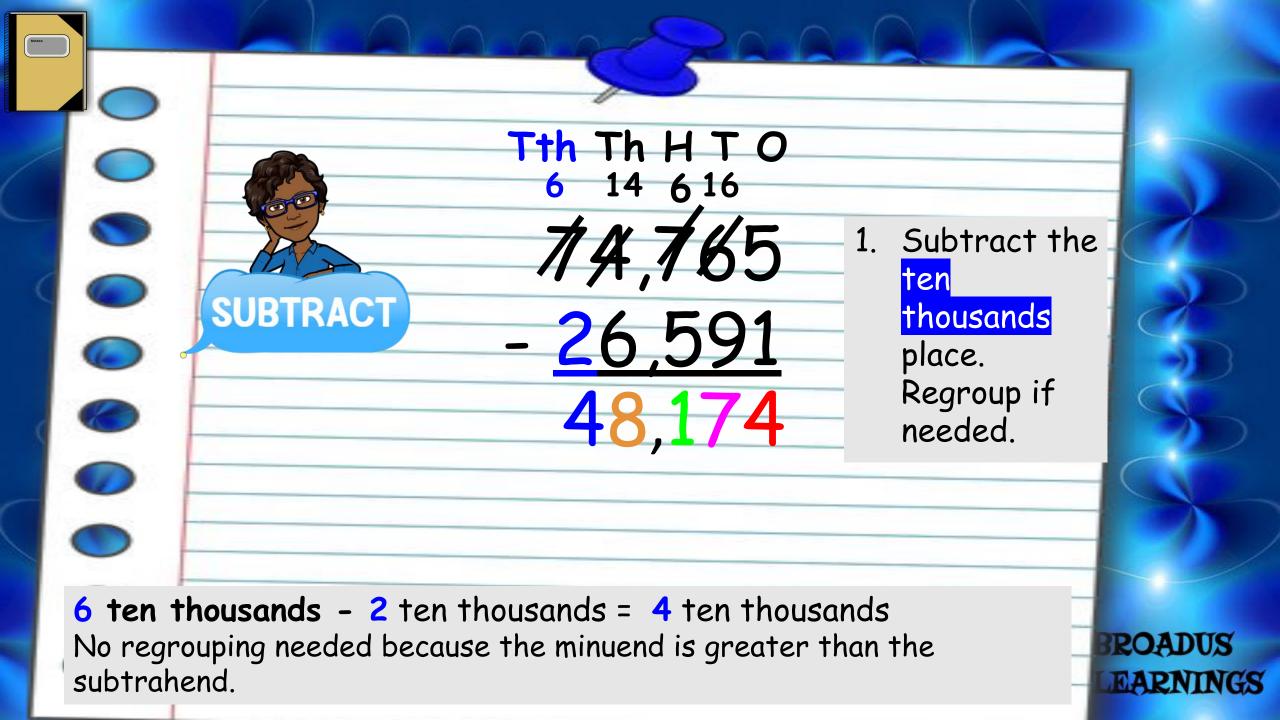
1. Subtract the tens place.
Regroup if needed.

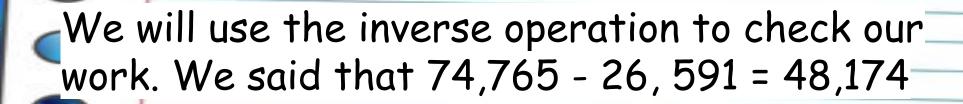
Regroup: 7 hundreds + 6 tens = 6 hundred + 16 tens

16 tens - 9 tens = 7 tens









If we are correct 48,174 + 26,591 will equal

74,765.



1 1

48,174

+ 26,591

74,765





Remember your rounding rules!

Tth Th H T O

74,765 70,000 26,591 - 30,000 48,174 40,000

This problem is rounded to the nearest ten thousands. So-48,174 is reasonable.



Hth Tth Th H T O

Line up by place value.

The larger number (greatest value) goes on top. MINUEND

The number you are subtracting goes on the bottom. SUBTRAHEND

843,281/

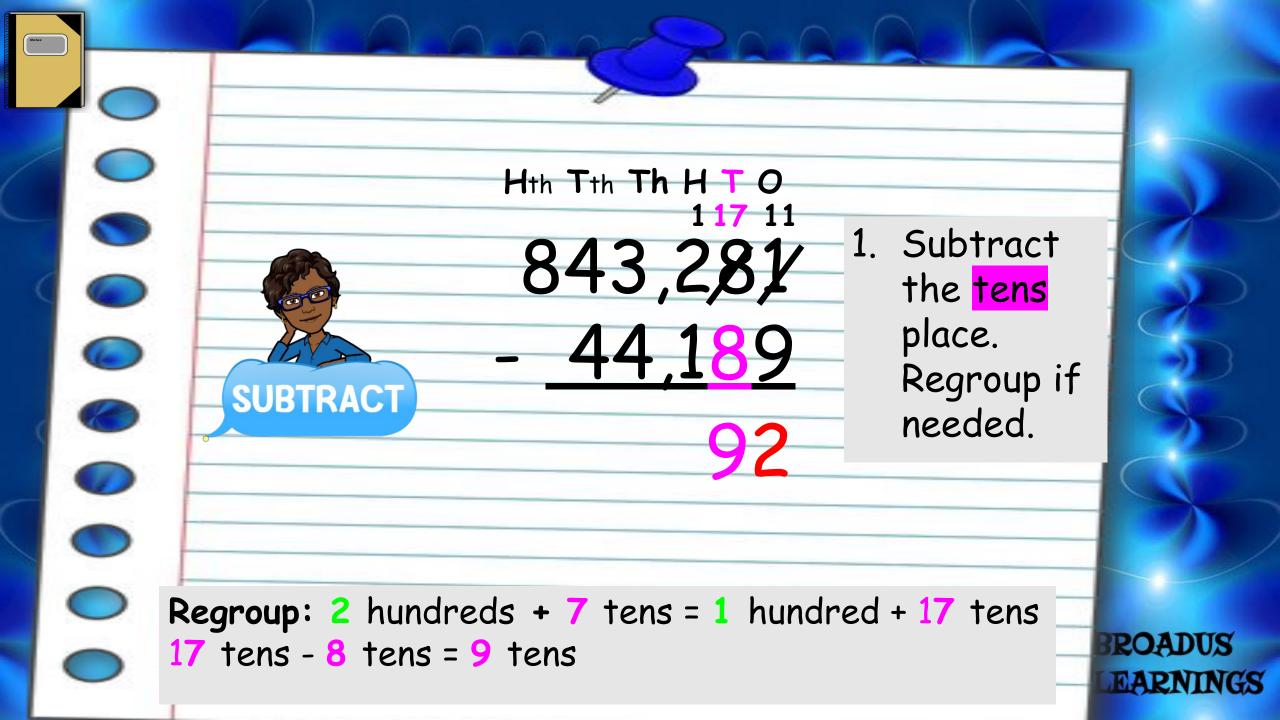
- <u>44,189</u>

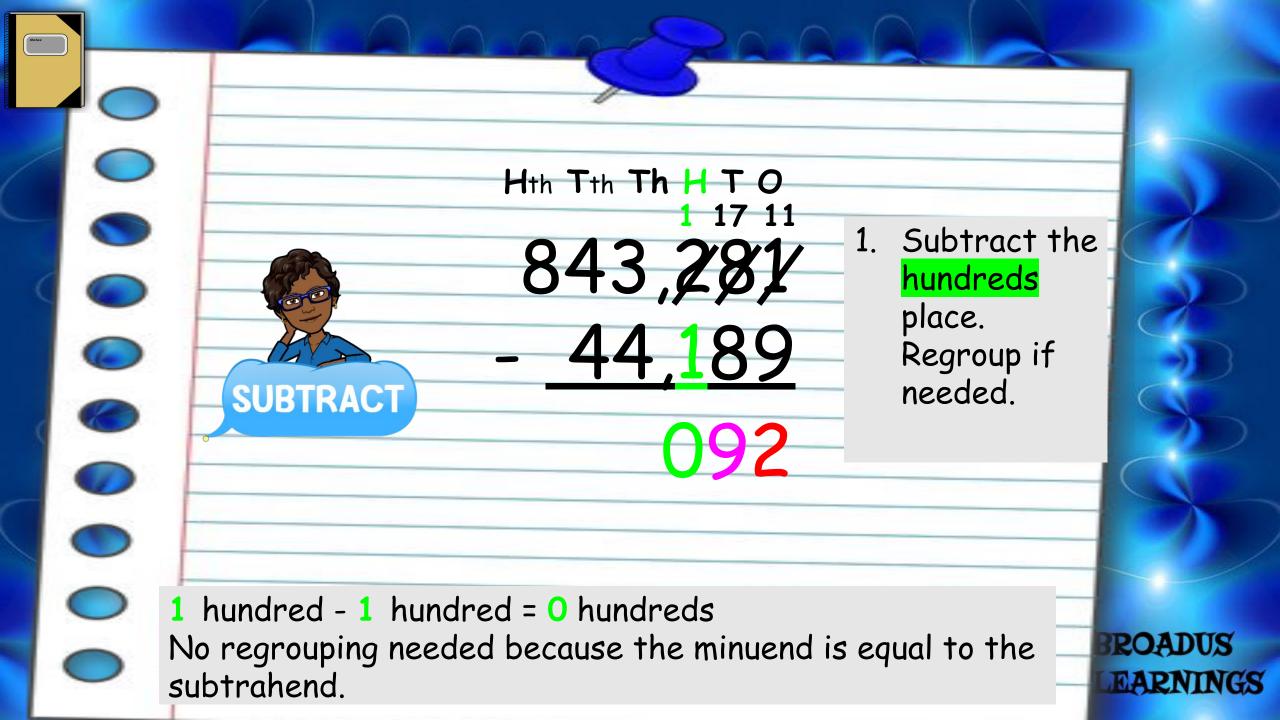
2

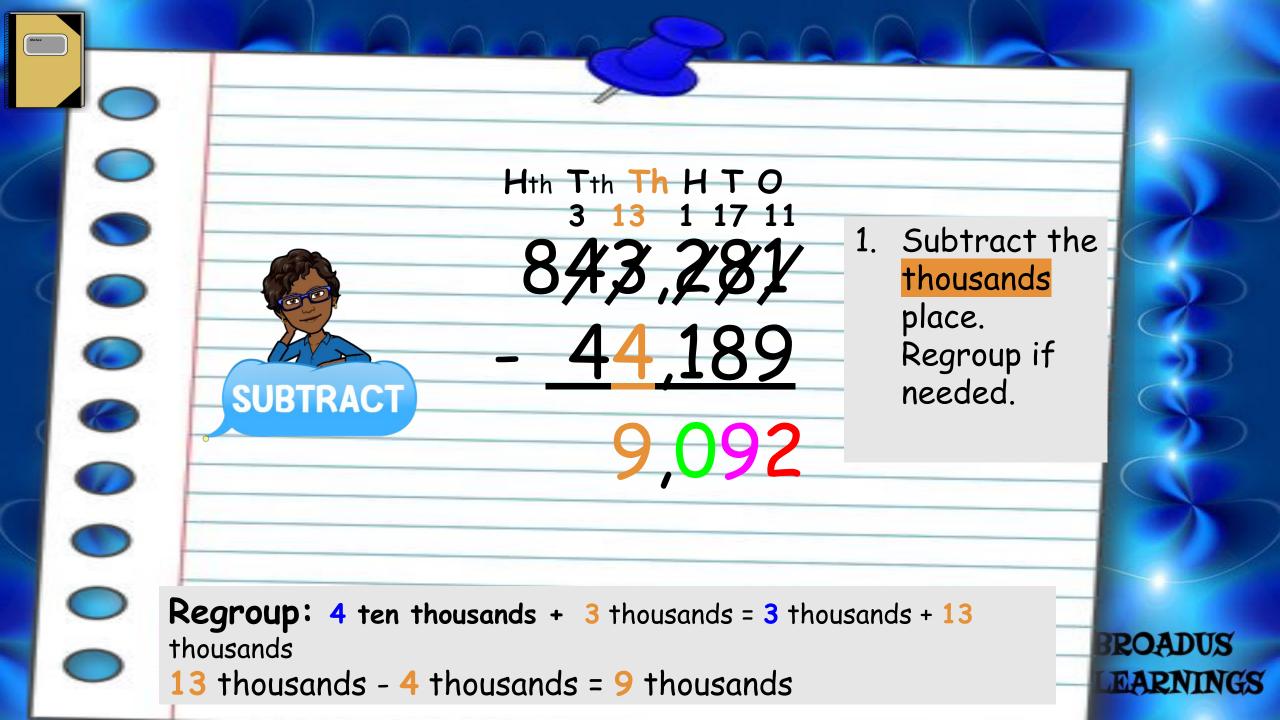
1. Subtract the ones place.
Regroup if needed.

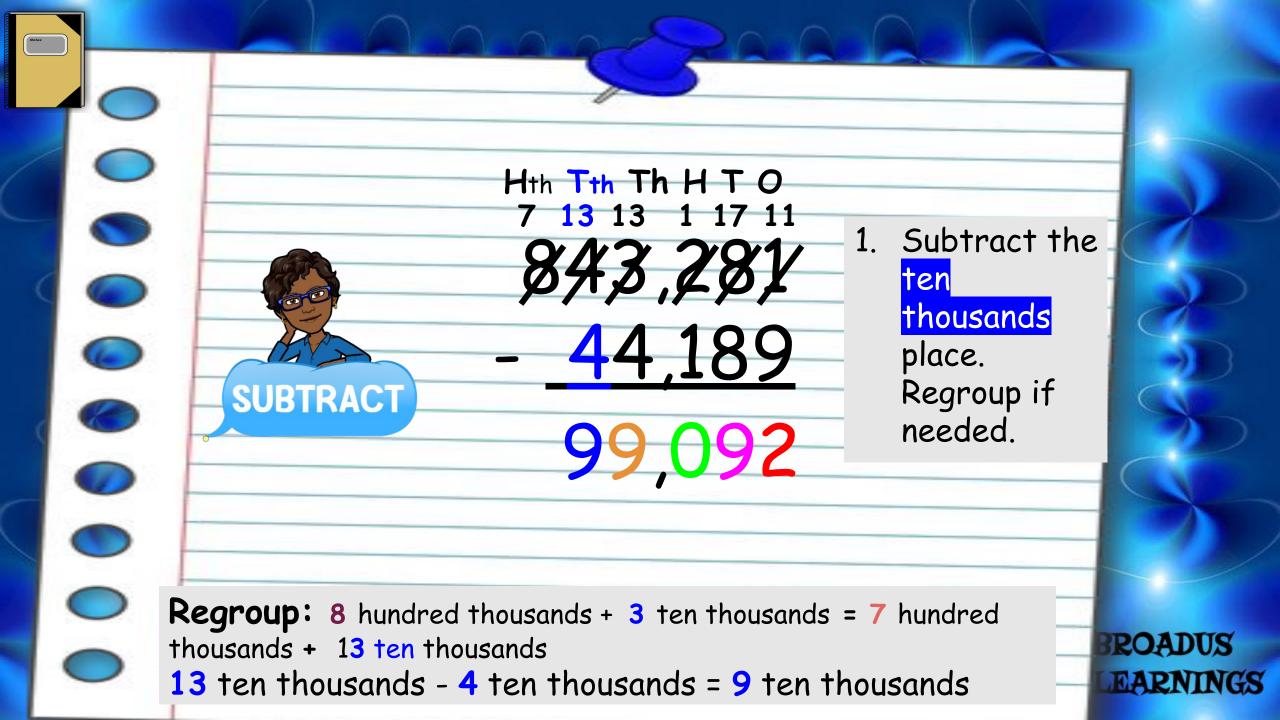
Regroup: 8 tens + 1 one = 7 tens + 11 ones

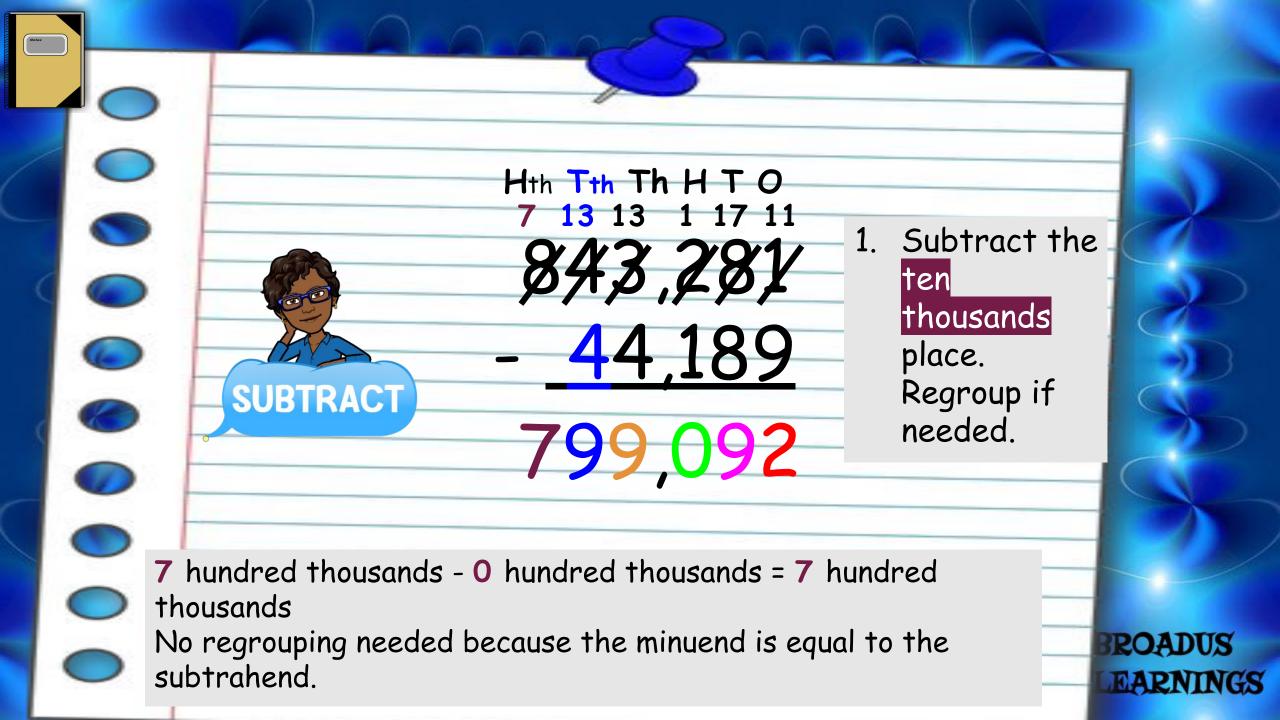
11 ones - 9 ones = 2 ones

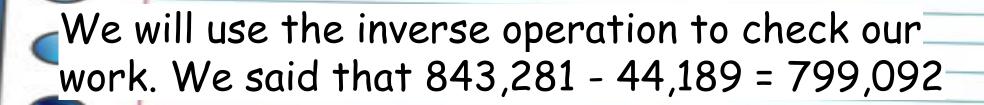












If we are correct 799,092 + 44,189 will equal

843,281.



1 1 11

799,092

+ 44,189

843,281





Remember your rounding rules!

Tth Th H T O

 $\sim 843,281 \longrightarrow 840,000$

- <u>44,189</u> - <u>40,000</u>

 $799,092 \longrightarrow 800,000$

This problem is rounded to the nearest ten thousands. So 799,092 is reasonable.

