

## LONG SUBTRACTION

### Subtract by Regrouping

**Objective:** Subtract each column. When the top digit is too small, borrow ten from the next column.

#### INSTRUCTION

Start with the ones. If the top number is smaller, borrow ten from the next column, cross it out, then subtract.

#### EXAMPLE

Follow the steps to solve it.

#### 1 Subtract the ones

$$\begin{array}{r} 3029 \\ -2161 \\ \hline 8 \end{array}$$

$9 - 1 = 8$

#### 2 Subtract the tens

$2 - 6$  is too small – borrow a ten.  
The hundreds is 0, so borrow from the thousands first.  
 $12 - 6 = 6$

$$\begin{array}{r} 2912 \\ \cancel{3} \cancel{0} \cancel{2} 9 \\ -2161 \\ \hline 68 \end{array}$$

#### 3 Subtract the hundreds

$$\begin{array}{r} 2912 \\ \cancel{3} \cancel{0} \cancel{2} 9 \\ -2161 \\ \hline 868 \end{array}$$

$9 - 1 = 8$

#### 4 Subtract the thousands

$2 - 2 = 0$   
It is 0 – no leading zero to write.

$$\begin{array}{r} 2912 \\ \cancel{3} \cancel{0} \cancel{2} 9 \\ -2161 \\ \hline 868 \end{array}$$

#### 5 Final answer

$$\begin{array}{r} 2912 \\ \cancel{3} \cancel{0} \cancel{2} 9 \\ -2161 \\ \hline 868 \end{array}$$

$3029 - 2161 = 868$   
868 is the difference!

#### INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1. 
$$\begin{array}{r} 5079 \\ -2889 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 8504 \\ -7041 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 6978 \\ -1394 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 6892 \\ -2989 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 7945 \\ -1867 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 8329 \\ -3741 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 4662 \\ -2196 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 8704 \\ -4952 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 7734 \\ -6398 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 8024 \\ -2915 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 5820 \\ -1118 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 9211 \\ -1471 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 7428 \\ -2560 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 9151 \\ -8570 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 5389 \\ -1726 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 8702 \\ -7351 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 9806 \\ -1617 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 9425 \\ -2631 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 8539 \\ -5981 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 6182 \\ -5813 \\ \hline \end{array}$$

I solved by:  started with the ones  borrowed a ten  checked my work

TEACHER EDITION

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**EXAMPLE**

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**2 Subtract the tens**

2 - 6 is too small - borrow a ten.  
The hundreds is 0, so borrow from the thousands first.  
12 - 6 = 6

$$\begin{array}{r} 29\cancel{12}9 \\ -21\cancel{6}1 \\ \hline 68 \end{array}$$

**3 Subtract the hundreds**

$$\begin{array}{r} 29\cancel{12}9 \\ -21\cancel{6}1 \\ \hline 868 \end{array}$$

9 - 1 = 8

**4 Subtract the thousands**

2 - 2 = 0  
It is 0 - no leading zero to write.

$$\begin{array}{r} 29\cancel{12}9 \\ -21\cancel{6}1 \\ \hline 868 \end{array}$$

**5 Final answer**

$$\begin{array}{r} 29\cancel{12}9 \\ -21\cancel{6}1 \\ \hline 868 \end{array}$$

3029 - 2161 = 868  
868 is the difference!

**INDEPENDENT PRACTICE**

Solve each one. Write the answer below the line.

1. 
$$\begin{array}{r} 5079 \\ -2889 \\ \hline 2190 \end{array}$$

2. 
$$\begin{array}{r} 8504 \\ -7041 \\ \hline 1463 \end{array}$$

3. 
$$\begin{array}{r} 6978 \\ -1394 \\ \hline 5584 \end{array}$$

4. 
$$\begin{array}{r} 6892 \\ -2989 \\ \hline 3903 \end{array}$$

5. 
$$\begin{array}{r} 7945 \\ -1867 \\ \hline 6078 \end{array}$$

6. 
$$\begin{array}{r} 8329 \\ -3741 \\ \hline 4588 \end{array}$$

7. 
$$\begin{array}{r} 4662 \\ -2196 \\ \hline 2466 \end{array}$$

8. 
$$\begin{array}{r} 8704 \\ -4952 \\ \hline 3752 \end{array}$$

9. 
$$\begin{array}{r} 7734 \\ -6398 \\ \hline 1336 \end{array}$$

10. 
$$\begin{array}{r} 8024 \\ -2915 \\ \hline 5109 \end{array}$$

11. 
$$\begin{array}{r} 5820 \\ -1118 \\ \hline 4702 \end{array}$$

12. 
$$\begin{array}{r} 9211 \\ -1471 \\ \hline 7740 \end{array}$$

13. 
$$\begin{array}{r} 7428 \\ -2560 \\ \hline 4868 \end{array}$$

14. 
$$\begin{array}{r} 9151 \\ -8570 \\ \hline 581 \end{array}$$

15. 
$$\begin{array}{r} 5389 \\ -1726 \\ \hline 3663 \end{array}$$

16. 
$$\begin{array}{r} 8702 \\ -7351 \\ \hline 1351 \end{array}$$

17. 
$$\begin{array}{r} 9806 \\ -1617 \\ \hline 8189 \end{array}$$

18. 
$$\begin{array}{r} 9425 \\ -2631 \\ \hline 6794 \end{array}$$

19. 
$$\begin{array}{r} 8539 \\ -5981 \\ \hline 2558 \end{array}$$

20. 
$$\begin{array}{r} 6182 \\ -5813 \\ \hline 369 \end{array}$$

I solved by:  started with the ones  borrowed a ten  checked my work