

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

1 - 2 is too small - borrow a ten.
 $11 - 2 = 9$

$$\begin{array}{r} 90\overset{2}{\cancel{3}}\overset{11}{\cancel{2}} \\ -3372 \\ \hline 9 \end{array}$$

2 Subtract the tens

3 - 7 is too small - borrow a ten.
 The hundreds is 0, so borrow from the thousands first.
 $12 - 7 = 5$

$$\begin{array}{r} 89\overset{12}{\cancel{3}}\overset{11}{\cancel{2}} \\ -3372 \\ \hline 59 \end{array}$$

3 Subtract the hundreds

$9 - 3 = 6$

$$\begin{array}{r} 89\overset{12}{\cancel{3}}\overset{11}{\cancel{2}} \\ -3372 \\ \hline 659 \end{array}$$

4 Subtract the thousands

$8 - 3 = 5$

$$\begin{array}{r} 89\overset{12}{\cancel{3}}\overset{11}{\cancel{2}} \\ -3372 \\ \hline 5659 \end{array}$$

5 Final answer

$$\begin{array}{r} 89\overset{12}{\cancel{3}}\overset{11}{\cancel{2}} \\ -3372 \\ \hline 5659 \end{array}$$

$9031 - 3372 = 5659$
 5659 is the difference!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 7504 \\ -5477 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 3591 \\ -1075 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 6733 \\ -4196 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 9935 \\ -9860 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 4782 \\ -1969 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7479 \\ -4970 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 8600 \\ -4576 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 9891 \\ -5919 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 8166 \\ -6169 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 9381 \\ -1137 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 3926 \\ -2450 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 8962 \\ -1658 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 6597 \\ -3770 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 9416 \\ -5699 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 5792 \\ -2569 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 5354 \\ -1157 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 9939 \\ -1296 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 9819 \\ -8459 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 4818 \\ -1883 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 5644 \\ -1439 \\ \hline \end{array}$$

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

TEACHER EDITION

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

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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

1 - 2 is too small - borrow a ten.
 $11 - 2 = 9$

$$\begin{array}{r} 90\cancel{3}\cancel{1} \\ - 3372 \\ \hline 5659 \end{array}$$

2 Subtract the tens

3 - 7 is too small - borrow a ten.
 The hundreds is 0, so borrow from the thousands first.
 $12 - 7 = 5$

$$\begin{array}{r} 89\cancel{12}\cancel{1} \\ - 3372 \\ \hline 5659 \end{array}$$

3 Subtract the hundreds

$9 - 3 = 6$

$$\begin{array}{r} 89\cancel{12}\cancel{1} \\ - 3372 \\ \hline 659 \end{array}$$

4 Subtract the thousands

$8 - 3 = 5$

$$\begin{array}{r} 89\cancel{12}\cancel{1} \\ - 3372 \\ \hline 5659 \end{array}$$

5 Final answer

$$\begin{array}{r} 89\cancel{12}\cancel{1} \\ - 3372 \\ \hline 5659 \end{array}$$

9031 - 3372 = 5659
 5659 is the difference!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 7504 \\ - 5477 \\ \hline 2027 \end{array}$$

2.
$$\begin{array}{r} 3591 \\ - 1075 \\ \hline 2516 \end{array}$$

3.
$$\begin{array}{r} 6733 \\ - 4196 \\ \hline 2537 \end{array}$$

4.
$$\begin{array}{r} 9935 \\ - 9860 \\ \hline 75 \end{array}$$

5.
$$\begin{array}{r} 4782 \\ - 1969 \\ \hline 2813 \end{array}$$

6.
$$\begin{array}{r} 7479 \\ - 4970 \\ \hline 2509 \end{array}$$

7.
$$\begin{array}{r} 8600 \\ - 4576 \\ \hline 4024 \end{array}$$

8.
$$\begin{array}{r} 9891 \\ - 5919 \\ \hline 3972 \end{array}$$

9.
$$\begin{array}{r} 8166 \\ - 6169 \\ \hline 1997 \end{array}$$

10.
$$\begin{array}{r} 9381 \\ - 1137 \\ \hline 8244 \end{array}$$

11.
$$\begin{array}{r} 3926 \\ - 2450 \\ \hline 1476 \end{array}$$

12.
$$\begin{array}{r} 8962 \\ - 1658 \\ \hline 7304 \end{array}$$

13.
$$\begin{array}{r} 6597 \\ - 3770 \\ \hline 2827 \end{array}$$

14.
$$\begin{array}{r} 9416 \\ - 5699 \\ \hline 3717 \end{array}$$

15.
$$\begin{array}{r} 5792 \\ - 2569 \\ \hline 3223 \end{array}$$

16.
$$\begin{array}{r} 5354 \\ - 1157 \\ \hline 4197 \end{array}$$

17.
$$\begin{array}{r} 9939 \\ - 1296 \\ \hline 8643 \end{array}$$

18.
$$\begin{array}{r} 9819 \\ - 8459 \\ \hline 1360 \end{array}$$

19.
$$\begin{array}{r} 4818 \\ - 1883 \\ \hline 2935 \end{array}$$

20.
$$\begin{array}{r} 5644 \\ - 1439 \\ \hline 4205 \end{array}$$

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