

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

$$\begin{array}{r} 8047 \\ -6876 \\ \hline 1 \end{array}$$

$7 - 6 = 1$

2 Subtract the tens

$4 - 7$ is too small – borrow a ten.
The hundreds is 0, so borrow from the thousands first.

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 71 \end{array}$$

$14 - 7 = 7$

3 Subtract the hundreds

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 171 \end{array}$$

$9 - 8 = 1$

4 Subtract the thousands

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 1171 \end{array}$$

$7 - 6 = 1$

5 Final answer

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 1171 \end{array}$$

$8047 - 6876 = 1171$
1171 is the difference!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 9112 \\ -6750 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 9917 \\ -1196 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 9309 \\ -3782 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 9730 \\ -9245 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6118 \\ -1717 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 6168 \\ -4119 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 9438 \\ -2374 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 3870 \\ -1113 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 4618 \\ -1767 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 9643 \\ -5904 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 7023 \\ -2928 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 7563 \\ -1589 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 9531 \\ -1625 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 8935 \\ -8164 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 9195 \\ -2233 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 4057 \\ -1390 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 4855 \\ -4674 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 3365 \\ -2851 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 9290 \\ -4584 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 9820 \\ -7174 \\ \hline \end{array}$$

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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EXAMPLE

Follow the steps to solve it.

1 Subtract the ones

$$7 - 6 = 1$$

$$\begin{array}{r} 8047 \\ -6876 \\ \hline 1 \end{array}$$

2 Subtract the tens

4 - 7 is too small - borrow a ten.
The hundreds is 0, so borrow from the thousands first.

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 71 \end{array}$$

3 Subtract the hundreds

$$9 - 8 = 1$$

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 171 \end{array}$$

4 Subtract the thousands

$$7 - 6 = 1$$

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 1171 \end{array}$$

5 Final answer

$$\begin{array}{r} 79\cancel{0}7 \\ -6876 \\ \hline 1171 \end{array}$$

8047 - 6876 = 1171
1171 is the difference!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.

$$\begin{array}{r} 9112 \\ -6750 \\ \hline 2362 \end{array}$$

2.

$$\begin{array}{r} 9917 \\ -1196 \\ \hline 8721 \end{array}$$

3.

$$\begin{array}{r} 9309 \\ -3782 \\ \hline 5527 \end{array}$$

4.

$$\begin{array}{r} 9730 \\ -9245 \\ \hline 485 \end{array}$$

5.

$$\begin{array}{r} 6118 \\ -1717 \\ \hline 4401 \end{array}$$

6.

$$\begin{array}{r} 6168 \\ -4119 \\ \hline 2049 \end{array}$$

7.

$$\begin{array}{r} 9438 \\ -2374 \\ \hline 7064 \end{array}$$

8.

$$\begin{array}{r} 3870 \\ -1113 \\ \hline 2757 \end{array}$$

9.

$$\begin{array}{r} 4618 \\ -1767 \\ \hline 2851 \end{array}$$

10.

$$\begin{array}{r} 9643 \\ -5904 \\ \hline 3739 \end{array}$$

11.

$$\begin{array}{r} 7023 \\ -2928 \\ \hline 4095 \end{array}$$

12.

$$\begin{array}{r} 7563 \\ -1589 \\ \hline 5974 \end{array}$$

13.

$$\begin{array}{r} 9531 \\ -1625 \\ \hline 7906 \end{array}$$

14.

$$\begin{array}{r} 8935 \\ -8164 \\ \hline 771 \end{array}$$

15.

$$\begin{array}{r} 9195 \\ -2233 \\ \hline 6962 \end{array}$$

16.

$$\begin{array}{r} 4057 \\ -1390 \\ \hline 2667 \end{array}$$

17.

$$\begin{array}{r} 4855 \\ -4674 \\ \hline 181 \end{array}$$

18.

$$\begin{array}{r} 3365 \\ -2851 \\ \hline 514 \end{array}$$

19.

$$\begin{array}{r} 9290 \\ -4584 \\ \hline 4706 \end{array}$$

20.

$$\begin{array}{r} 9820 \\ -7174 \\ \hline 2646 \end{array}$$

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