

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

5 - 6 is too small - borrow a ten.
The tens is 0, so borrow from the hundreds first.
 $15 - 6 = 9$

$$\begin{array}{r} \overset{6}{9} \overset{15}{5} \\ - 2066 \\ \hline \\ \end{array}$$

2 Subtract the tens

$9 - 6 = 3$

$$\begin{array}{r} \overset{6}{9} \overset{15}{5} \\ - 2066 \\ \hline \\ \end{array}$$

3 Subtract the hundreds

$6 - 0 = 6$

$$\begin{array}{r} \overset{6}{9} \overset{15}{5} \\ - 2066 \\ \hline \\ \end{array}$$

4 Subtract the thousands

$9 - 2 = 7$

$$\begin{array}{r} \overset{6}{9} \overset{15}{5} \\ - 2066 \\ \hline \\ \end{array}$$

5 Final answer

$$\begin{array}{r} \overset{6}{9} \overset{15}{5} \\ - 2066 \\ \hline \\ \end{array}$$

$9705 - 2066 = 7639$
7639 is the difference!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 8880 \\ - 6814 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 9051 \\ - 7624 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7449 \\ - 7098 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 7660 \\ - 6574 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9243 \\ - 5410 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 4769 \\ - 4088 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 7760 \\ - 4521 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6092 \\ - 1929 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 7007 \\ - 2024 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 1835 \\ - 1269 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 6824 \\ - 5786 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 3964 \\ - 3272 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 4193 \\ - 1179 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 6908 \\ - 1176 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 6527 \\ - 5760 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 6369 \\ - 4854 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 8501 \\ - 2433 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 7743 \\ - 3995 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 2306 \\ - 1528 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 8234 \\ - 5859 \\ \hline \end{array}$$

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

5 - 6 is too small - borrow a ten.
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15 - 6 = 9

$$\begin{array}{r} \overset{6}{9} \overset{15}{15} \\ - \overset{7}{7} \overset{0}{0} \overset{6}{6} \\ \hline \overset{7}{7} \overset{0}{0} \overset{9}{9} \end{array}$$

2 Subtract the tens

9 - 6 = 3

$$\begin{array}{r} \overset{6}{9} \overset{15}{15} \\ - \overset{7}{7} \overset{0}{0} \overset{6}{6} \\ \hline \overset{3}{3} \overset{0}{0} \overset{9}{9} \end{array}$$

3 Subtract the hundreds

6 - 0 = 6

$$\begin{array}{r} \overset{6}{9} \overset{15}{15} \\ - \overset{7}{7} \overset{0}{0} \overset{6}{6} \\ \hline \overset{6}{6} \overset{3}{3} \overset{9}{9} \end{array}$$

4 Subtract the thousands

9 - 2 = 7

$$\begin{array}{r} \overset{6}{9} \overset{15}{15} \\ - \overset{7}{7} \overset{0}{0} \overset{6}{6} \\ \hline \overset{7}{7} \overset{6}{6} \overset{3}{3} \overset{9}{9} \end{array}$$

5 Final answer

$$\begin{array}{r} \overset{6}{9} \overset{15}{15} \\ - \overset{7}{7} \overset{0}{0} \overset{6}{6} \\ \hline \overset{7}{7} \overset{6}{6} \overset{3}{3} \overset{9}{9} \end{array}$$

9705 - 2066 = 7639
7639 is the difference!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

- | | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 8880 \\ -6814 \\ \hline 2066 \end{array}$ | 2. $\begin{array}{r} 9051 \\ -7624 \\ \hline 1427 \end{array}$ | 3. $\begin{array}{r} 7449 \\ -7098 \\ \hline 351 \end{array}$ | 4. $\begin{array}{r} 7660 \\ -6574 \\ \hline 1086 \end{array}$ |
| 5. $\begin{array}{r} 9243 \\ -5410 \\ \hline 3833 \end{array}$ | 6. $\begin{array}{r} 4769 \\ -4088 \\ \hline 681 \end{array}$ | 7. $\begin{array}{r} 7760 \\ -4521 \\ \hline 3239 \end{array}$ | 8. $\begin{array}{r} 6092 \\ -1929 \\ \hline 4163 \end{array}$ |
| 9. $\begin{array}{r} 7007 \\ -2024 \\ \hline 4983 \end{array}$ | 10. $\begin{array}{r} 1835 \\ -1269 \\ \hline 566 \end{array}$ | 11. $\begin{array}{r} 6824 \\ -5786 \\ \hline 1038 \end{array}$ | 12. $\begin{array}{r} 3964 \\ -3272 \\ \hline 692 \end{array}$ |
| 13. $\begin{array}{r} 4193 \\ -1179 \\ \hline 3014 \end{array}$ | 14. $\begin{array}{r} 6908 \\ -1176 \\ \hline 5732 \end{array}$ | 15. $\begin{array}{r} 6527 \\ -5760 \\ \hline 767 \end{array}$ | 16. $\begin{array}{r} 6369 \\ -4854 \\ \hline 1515 \end{array}$ |
| 17. $\begin{array}{r} 8501 \\ -2433 \\ \hline 6068 \end{array}$ | 18. $\begin{array}{r} 7743 \\ -3995 \\ \hline 3748 \end{array}$ | 19. $\begin{array}{r} 2306 \\ -1528 \\ \hline 778 \end{array}$ | 20. $\begin{array}{r} 8234 \\ -5859 \\ \hline 2375 \end{array}$ |

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