FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

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

$$\begin{array}{r} {}^{8}\cancel{9}\,{}^{15}\cancel{5} \\ -\,3\,0\,9 \\ \hline 6 \end{array}$$

2 Subtract the tens

9 − 0 = 9

$$\begin{array}{r} {}^{8}\cancel{9}\,{}^{15}\cancel{5} \\ -\,3\,0\,9 \\ \hline 9\,6 \end{array}$$

3 Subtract the hundreds

8 − 3 = 5

$$\begin{array}{r} {}^{8}\cancel{9}\,{}^{15}\cancel{5} \\ -\,3\,0\,9 \\ \hline 5\,9\,6 \end{array}$$

4 Final answer

$$\begin{array}{r} {}^{8}\cancel{9}\,{}^{15}\cancel{5} \\ -\,3\,0\,9 \\ \hline 5\,9\,6 \end{array}$$

905 − 309 = 596
596 is the difference!

INDEPENDENT PRACTICE Solve each one. Write the answer below the line.

1. $\begin{array}{r} 5\,0\,5 \\ -\,1\,3\,7 \\ \hline \end{array}$
2. $\begin{array}{r} 6\,3\,2 \\ -\,1\,5\,5 \\ \hline \end{array}$
3. $\begin{array}{r} 8\,7\,7 \\ -\,3\,8\,9 \\ \hline \end{array}$
4. $\begin{array}{r} 6\,3\,6 \\ -\,3\,4\,9 \\ \hline \end{array}$
5. $\begin{array}{r} 1\,8\,0 \\ -\,1\,6\,8 \\ \hline \end{array}$
6. $\begin{array}{r} 6\,2\,0 \\ -\,6\,1\,5 \\ \hline \end{array}$
7. $\begin{array}{r} 9\,3\,6 \\ -\,2\,1\,8 \\ \hline \end{array}$
8. $\begin{array}{r} 8\,0\,3 \\ -\,3\,5\,6 \\ \hline \end{array}$
9. $\begin{array}{r} 9\,5\,3 \\ -\,3\,9\,5 \\ \hline \end{array}$
10. $\begin{array}{r} 5\,1\,1 \\ -\,4\,1\,7 \\ \hline \end{array}$
11. $\begin{array}{r} 9\,2\,2 \\ -\,3\,5\,4 \\ \hline \end{array}$
12. $\begin{array}{r} 5\,5\,7 \\ -\,3\,9\,9 \\ \hline \end{array}$
13. $\begin{array}{r} 8\,5\,3 \\ -\,4\,4\,8 \\ \hline \end{array}$
14. $\begin{array}{r} 9\,0\,8 \\ -\,3\,5\,2 \\ \hline \end{array}$
15. $\begin{array}{r} 6\,9\,5 \\ -\,2\,4\,9 \\ \hline \end{array}$
16. $\begin{array}{r} 7\,3\,8 \\ -\,4\,5\,9 \\ \hline \end{array}$
17. $\begin{array}{r} 8\,8\,5 \\ -\,7\,8\,6 \\ \hline \end{array}$
18. $\begin{array}{r} 8\,3\,0 \\ -\,7\,3\,7 \\ \hline \end{array}$
19. $\begin{array}{r} 9\,3\,8 \\ -\,3\,4\,7 \\ \hline \end{array}$
20. $\begin{array}{r} 4\,2\,2 \\ -\,2\,2\,7 \\ \hline \end{array}$

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

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TEACHER EDITION

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$$\begin{array}{r} {}^{8}\not{9}\,{}^{15}\not{5} \\ -\,3\,0\,9 \\ \hline 6 \end{array}$$

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9 − 0 = 9

$$\begin{array}{r} {}^{8}\not{9}\,{}^{15}\not{5} \\ -\,3\,0\,9 \\ \hline 9\,6 \end{array}$$

3 Subtract the hundreds

8 − 3 = 5

$$\begin{array}{r} {}^{8}\not{9}\,{}^{15}\not{5} \\ -\,3\,0\,9 \\ \hline 5\,9\,6 \end{array}$$

4 Final answer

$$\begin{array}{r} {}^{8}\not{9}\,{}^{15}\not{5} \\ -\,3\,0\,9 \\ \hline 5\,9\,6 \end{array}$$

905 − 309 = 596
596 is the difference!

INDEPENDENT PRACTICE Solve each one. Write the answer below the line.

1. $\begin{array}{r} 505 \\ -\,137 \\ \hline 368 \end{array}$
2. $\begin{array}{r} 632 \\ -\,155 \\ \hline 477 \end{array}$
3. $\begin{array}{r} 877 \\ -\,389 \\ \hline 488 \end{array}$
4. $\begin{array}{r} 636 \\ -\,349 \\ \hline 287 \end{array}$
5. $\begin{array}{r} 180 \\ -\,168 \\ \hline 12 \end{array}$
6. $\begin{array}{r} 620 \\ -\,615 \\ \hline 5 \end{array}$
7. $\begin{array}{r} 936 \\ -\,218 \\ \hline 718 \end{array}$
8. $\begin{array}{r} 803 \\ -\,356 \\ \hline 447 \end{array}$
9. $\begin{array}{r} 953 \\ -\,395 \\ \hline 558 \end{array}$
10. $\begin{array}{r} 511 \\ -\,417 \\ \hline 94 \end{array}$
11. $\begin{array}{r} 922 \\ -\,354 \\ \hline 568 \end{array}$
12. $\begin{array}{r} 557 \\ -\,399 \\ \hline 158 \end{array}$
13. $\begin{array}{r} 853 \\ -\,448 \\ \hline 405 \end{array}$
14. $\begin{array}{r} 908 \\ -\,352 \\ \hline 556 \end{array}$
15. $\begin{array}{r} 695 \\ -\,249 \\ \hline 446 \end{array}$
16. $\begin{array}{r} 738 \\ -\,459 \\ \hline 279 \end{array}$
17. $\begin{array}{r} 885 \\ -\,786 \\ \hline 99 \end{array}$
18. $\begin{array}{r} 830 \\ -\,737 \\ \hline 93 \end{array}$
19. $\begin{array}{r} 938 \\ -\,347 \\ \hline 591 \end{array}$
20. $\begin{array}{r} 422 \\ -\,227 \\ \hline 195 \end{array}$

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