

**KEY TO THE PRACTICAL
ARITHMETIC; CONTAINING
THE SOLUTION OF THE
MORE DIFFICULT EXAMPLES**

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Key to The practical arithmetic; containing the solution of the more difficult examples by
William J. Milne

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WILLIAM J. MILNE

**KEY TO THE PRACTICAL
ARITHMETIC; CONTAINING
THE SOLUTION OF THE
MORE DIFFICULT EXAMPLES**

Inductive Series.

K E Y

TO THE

PRACTICAL ARITHMETIC

CONTAINING THE SOLUTION

OF THE



MORE DIFFICULT EXAMPLES.

BY

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This work is designed to aid the teacher in the preparation of his class exercises, and to assist him in detecting errors in the processes of the pupils. It contains concise analyses and brief solutions of all the difficult problems, thus relieving the instructor from the burdensome necessity of devising forms of analyses for his classes.

Many of the problems can be solved in several ways, but the author has deemed it best to give that form of solution which is most natural to the student, although it may be occasionally longer than some other form.

The student who is pursuing his arithmetical studies without the assistance or direction of an instructor, will be able to economize his time by a judicious use of this work.

W. J. M.

April, 1878.

(III)

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KEY

TO

MILNE'S PRACTICAL ARITHMETIC.

NOTATION AND NUMERATION.

Page 13.

Example 2. 36,218,846: Thirty-six million, two hundred eighteen thousand, eight hundred forty-six.

3. 84,540,600,040: Eighty-four billion, five hundred forty million, six hundred thousand, forty.

4. 201,075,562,012,001: Two hundred one trillion, seventy-five billion, five hundred sixty-two million, twelve thousand, one.

5. 60,402,333,200,111: Sixty trillion, four hundred two billion, three hundred thirty-three million, two hundred thousand, one hundred eleven.

6. 73214070.

8. 225641351.

7. 80040612788.

9. 354604892036.

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1. One hundred sixteen thousand, two hundred thirty-four.

2. Sixty-five thousand, two hundred thirty-one.

3. Twenty thousand, seven hundred three.
4. Seventy-one thousand, five.
5. Three thousand, one hundred four.
6. Forty-eight thousand.
7. Sixty thousand, twenty-nine.
8. One hundred forty-one thousand, one hundred twenty.
9. One hundred one thousand, two hundred seven.
10. Sixty-eight thousand, nine hundred seventy-eight.
11. Seventy-two thousand, twenty.
12. Eighty thousand, one.
13. Eight hundred fifty-seven thousand.
14. Ninety-one thousand, twenty-nine.
15. Seven thousand, six hundred forty.
16. Eight hundred thousand, nine hundred.
17. Two million, five hundred sixty-eight thousand, two hundred forty-two.
18. One million, eight thousand, three.
19. Two hundred twelve million, three hundred seventy-five thousand, six hundred forty-seven.
20. Six hundred nine million, three thousand, five hundred eighty-eight.
21. Eight hundred ninety-seven million, eight hundred fifty-six thousand, eight hundred forty-six.
22. 200 : Two hundred.
23. 60,002 : Sixty thousand, two.

24. 700,000,000 : Seven hundred million.
25. 230,000,060 : Two hundred thirty million, sixty.
26. 81,501,007,012 : Eighty-one billion, five hundred one million, seven thousand, twelve.
27. 30,000,000,000,603 : Thirty trillion, six hundred three.
28. 700,080,000,000,000 : Seven hundred trillion, eighty billion.
29. 8,007,014,010 : Eight billion, seven million, fourteen thousand, ten.
30. 15,000,018,207,000,081 : Fifteen quadrillion, eighteen billion, two hundred seven million, eighty-one.

Page 15.

1. Sixty million, seven hundred one thousand, eight hundred ninety-two.
2. Fifty million, six hundred seven thousand, eight hundred one.
3. Six hundred thousand.
4. Forty-nine million.
5. Five hundred ninety-three billion, six million, seventy thousand, five hundred.
6. Nineteen quadrillion, nineteen trillion, one hundred ninety million, nineteen thousand, nineteen.
7. One hundred sixty-three million, one hundred ninety-four thousand, five hundred sixty-eight.
8. Three billion, fifty million, fifty thousand, one hundred eighty-three.