Reading and Writing Multi-Digit Whole Numbers

Explore ideas and representations

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Read groups of three digits. $305{,}042$ is three hundred five thousand forty-two. Its expanded form is $300{,}000 + 5{,}000 + 40 + 2$; zero holds an empty place.

Worked example

Write $408{,}026$ in expanded form.

1. The thousands group is 408 and the remaining group is 026.
2. Place values give $400000 + 8000 + 20 + 6 = 408026$.
3. Check the sum: $408026 = 408026$; zeros keep any empty places.
Answer: $400000 + 8000 + 20 + 6$.

Practice Problems

Show your thinking.

1. Write $126{,}304$ in words.

2. Write five hundred thirty thousand seventy-two in standard form.

3. Expand $804{,}519$ as a sum of nonzero place values.

4. Read $670{,}008$ in words.

5. Fix: Forty-two thousand nine is $42{,}900$.

6. Build a number with 6 ten-thousands, 3 hundreds, and 8 ones; all other digits are zero.

7. What is missing from $251{,}604 = 200{,}000 + 50{,}000 + 1{,}000 + \square + 4$?

8. Write a parcel code: nine hundred two thousand fourteen.

Answer Key

1. One hundred twenty-six thousand three hundred four.
2. $530,072$.
3. $800000 + 4000 + 500 + 10 + 9$.
4. Six hundred seventy thousand eight.
5. $42{,}009$.
6. 60308.
7. 600.
8. $902,014$.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The thousands group is 126 and the remaining group is 304.

2. Place values give $100000 + 20000 + 6000 + 300 + 4 = 126304$.

3. Read these groups as one hundred twenty-six thousand three hundred four.

Problem 2

1. The thousands group is 530 and the remaining group is 072.

2. Place values give $500000 + 30000 + 70 + 2 = 530072$.

3. Check the sum: $530072 = 530072$; zeros keep any empty places.

Problem 3

1. The thousands group is 804 and the remaining group is 519.

2. Place values give $800000 + 4000 + 500 + 10 + 9 = 804519$.

3. Check the sum: $804519 = 804519$; zeros keep any empty places.

Problem 4

1. The thousands group is 670 and the remaining group is 008.

2. Place values give $600000 + 70000 + 8 = 670008$.

3. Read these groups as six hundred seventy thousand eight.

Problem 5

1. Forty-two thousand is $42 \times 1{,}000 = 42{,}000$.

2. Nine more is $42{,}000 + 9 = 42{,}009$.

3. $42{,}900$ would mean forty-two thousand nine hundred.

Problem 6

1. $6 \times 10{,}000 = 60{,}000$.

2. $3 \times 100 + 8 = 308$.

3. $60{,}000 + 308 = 60{,}308$.

Problem 7

1. The known terms total $200{,}000 + 50{,}000 + 1{,}000 + 4 = 251{,}004$.

2. $251{,}604 - 251{,}004 = 600$.

3. $251{,}004 + 600 = 251{,}604$ checks the missing term.

Problem 8

1. The thousands group is 902 and the remaining group is 014.

2. Place values give $900000 + 2000 + 10 + 4 = 902014$.

3. Check the sum: $902014 = 902014$; zeros keep any empty places.

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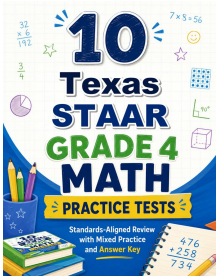

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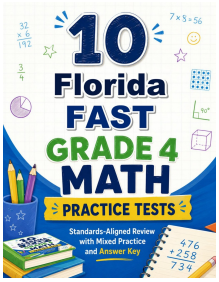

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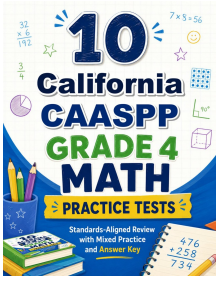

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