Adding and Subtracting Multi-Digit Whole Numbers

Explore ideas and representations

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

QUICK REVIEW

Align equal place values. Regroup ten of one unit as one of the next. $2{,}846 + 1{,}275 = 4{,}121$; $4{,}121 - 1{,}275 = 2{,}846$ checks it. Across zeros, $5{,}000 - 248 = 4{,}752$.

Worked example

Find $30{,}804 + 17{,}639$ and check.

1. Split the second number: $17,639 = 17,000 + 639$.
2. $30,804 + 17,000 = 47,804$; then $47,804 + 639 = 48,443$.
3. Check with the inverse: $48,443 - 17,639 = 30,804$.
Answer: 48443.

Practice Problems

Show your thinking.

1. Add $46{,}218 + 27{,}546$.

2. Subtract $80{,}502 - 36{,}784$.

3. Find the sum of $128{,}905$ and $24{,}678$.

4. Find $60{,}000 - 27{,}856$ across the zeros.

5. Fix: $4{,}008 - 1{,}629 = 3{,}621$.

6. A place-value chart shows $35{,}670$ and $18{,}950$. Combine the two rows.

Thousands	Rest
35	670
18	950

7. Explain why $52{,}000 - 19{,}999$ can be found using $20{,}000$. Find the result.

8. Find the gap between $70{,}025$ and $38{,}647$.

Answer Key

1. 73764.
2. 43718.
3. 153583.
4. 32144.
5. $2{,}379$.
6. 54620.
7. $32{,}001$.
8. 31378.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Split the second number: $27,546 = 27,000 + 546$.
2. $46,218 + 27,000 = 73,218$; then $73,218 + 546 = 73,764$.
3. Check with the inverse: $73,764 - 27,546 = 46,218$.

Problem 2

1. Split the second number: $36,784 = 36,000 + 784$.
2. $80,502 - 36,000 = 44,502$; then $44,502 - 784 = 43,718$.
3. Check with the inverse: $43,718 + 36,784 = 80,502$.

Problem 3

1. Split the second number: $24,678 = 24,000 + 678$.
2. $128,905 + 24,000 = 152,905$; then $152,905 + 678 = 153,583$.
3. Check with the inverse: $153,583 - 24,678 = 128,905$.

Problem 4

1. Split the second number: $27,856 = 27,000 + 856$.
2. $60,000 - 27,000 = 33,000$; then $33,000 - 856 = 32,144$.
3. Check with the inverse: $32,144 + 27,856 = 60,000$.

Problem 5

1. $4{,}008 - 1{,}000 = 3{,}008$.
2. $3{,}008 - 600 - 29 = 2{,}379$.
3. $2{,}379 + 1{,}629 = 4{,}008$ checks the correction.

Problem 6

1. Thousands parts give $35{,}000 + 18{,}000 = 53{,}000$.
2. The rest gives $670 + 950 = 1{,}620$.
3. $53{,}000 + 1{,}620 = 54{,}620$.

Problem 7

1. $52{,}000 - 20{,}000 = 32{,}000$.
2. That subtracts 1 too much, since $20{,}000 - 19{,}999 = 1$.
3. Add it back: $32{,}000 + 1 = 32{,}001$.

Problem 8

1. Split the second number: $38,647 = 38,000 + 647$.
2. $70,025 - 38,000 = 32,025$; then $32,025 - 647 = 31,378$.
3. Check with the inverse: $31,378 + 38,647 = 70,025$.

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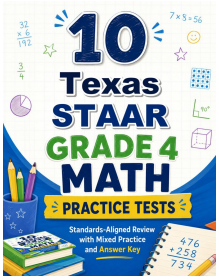

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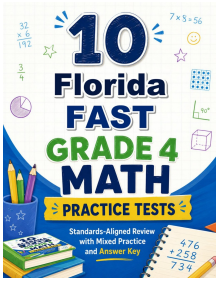

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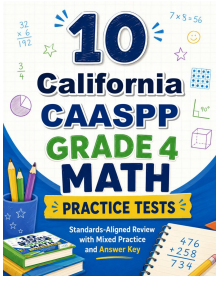

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