Adding and Subtracting Multi-Digit Whole Numbers

Spot mistakes, reason, and work backward

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. Find the missing addend in $45{,}827 + \square = 98{,}403$.

2. An addition check has total $72{,}064$ and one part $18{,}679$. Find the other part.

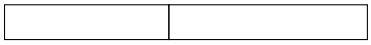
3. Find the original number if subtracting $29{,}487$ leaves $53{,}826$.

4. Complete $\square + 43{,}876 = 100{,}000$.

5. Jo adds $36{,}890 + 7{,}645$ and writes $43{,}535$. Find the missed thousand.

6. Use compensation to find $84{,}206 + 9{,}998$.

7. A bar totals $63{,}500$. One part is $28{,}760$. Find the unlabelled part.



8. A club needs enough tickets for $54{,}826$ adults and $21{,}795$ children. Find the total.

Answer Key

1. 52576.
2. 53385.
3. 83313.
4. 56124.
5. $44{,}535$.
6. $94{,}204$.
7. 34740.
8. 76621.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Split the second number: $45,827 = 45,000 + 827$.
2. $98,403 - 45,000 = 53,403$; then $53,403 - 827 = 52,576$.
3. Check with the inverse: $52,576 + 45,827 = 98,403$.

Problem 2

1. Split the second number: $18,679 = 18,000 + 679$.
2. $72,064 - 18,000 = 54,064$; then $54,064 - 679 = 53,385$.
3. Check with the inverse: $53,385 + 18,679 = 72,064$.

Problem 3

1. Split the second number: $29,487 = 29,000 + 487$.
2. $53,826 + 29,000 = 82,826$; then $82,826 + 487 = 83,313$.
3. Check with the inverse: $83,313 - 29,487 = 53,826$.

Problem 4

1. Split the second number: $43,876 = 43,000 + 876$.
2. $100,000 - 43,000 = 57,000$; then $57,000 - 876 = 56,124$.
3. Check with the inverse: $56,124 + 43,876 = 100,000$.

Problem 5

1. $36{,}890 + 7{,}000 = 43{,}890$.
2. $43{,}890 + 645 = 44{,}535$; the last addition crosses a thousand.
3. $44{,}535 - 7{,}645 = 36{,}890$ checks it.

Problem 6

1. $9{,}998 = 10{,}000 - 2$.
2. $84{,}206 + 10{,}000 = 94{,}206$.
3. $94{,}206 - 2 = 94{,}204$.

Problem 7

1. The missing part plus $28{,}760$ equals $63{,}500$.
2. $63{,}500 - 28{,}000 = 35{,}500$; $35{,}500 - 760 = 34{,}740$.
3. $34{,}740 + 28{,}760 = 63{,}500$ checks the bar.

Problem 8

1. Split the second number: $21,795 = 21,000 + 795$.
2. $54,826 + 21,000 = 75,826$; then $75,826 + 795 = 76,621$.
3. Check with the inverse: $76,621 - 21,795 = 54,826$.

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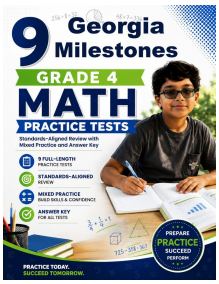

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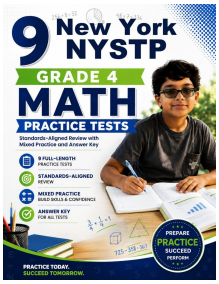

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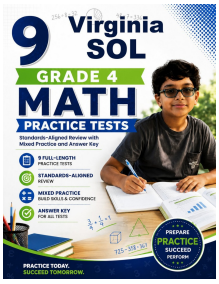

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