Adding and Subtracting Multi-Digit Whole Numbers

Apply the skill to decisions and designs

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. A library owns $78{,}654$ books and lends $18{,}729$. How many remain?

2. Two schools collect $23{,}786$ and $45{,}897$ cans. Find the combined count.

3. A printer needs $250{,}000$ sheets and has $98{,}764$. How many more are needed?

4. A museum has $156{,}708$ items and receives $28{,}396$. Find the new total.

5. A stock report claims $90{,}000 - 28{,}475 = 72{,}525$. Repair the count.

6. An event ends with $43{,}708$ tickets after selling $26{,}985$. Find the starting supply.

7. Compare two supply totals: $48{,}600 + 21{,}450$ and $48{,}600 + 21{,}540$. Which is greater, and by how much?

8. Complete the shipment table and give the total received.

Shipment	Items
Morning	28750
Afternoon	36480
Evening	10176

Answer Key

1. 59925.
2. 69683.
3. 151236.
4. 185104.
5. $61{,}525$.
6. 70693 tickets.
7. The second is greater by 90.
8. $75{,}406$ items.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Split the second number: $18,729 = 18,000 + 729$.
2. $78,654 - 18,000 = 60,654$; then $60,654 - 729 = 59,925$.
3. Check with the inverse: $59,925 + 18,729 = 78,654$.

Problem 2

1. Split the second number: $45,897 = 45,000 + 897$.
2. $23,786 + 45,000 = 68,786$; then $68,786 + 897 = 69,683$.
3. Check with the inverse: $69,683 - 45,897 = 23,786$.

Problem 3

1. Split the second number: $98,764 = 98,000 + 764$.
2. $250,000 - 98,000 = 152,000$; then $152,000 - 764 = 151,236$.
3. Check with the inverse: $151,236 + 98,764 = 250,000$.

Problem 4

1. Split the second number: $28,396 = 28,000 + 396$.
2. $156,708 + 28,000 = 184,708$; then $184,708 + 396 = 185,104$.
3. Check with the inverse: $185,104 - 28,396 = 156,708$.

Problem 5

1. $90{,}000 - 28{,}000 = 62{,}000$.
2. $62{,}000 - 475 = 61{,}525$.
3. $61{,}525 + 28{,}475 = 90{,}000$ checks the stock.

Problem 6

1. Put the sold tickets back: $43{,}708 + 26{,}000 = 69{,}708$.
2. $69{,}708 + 985 = 70{,}693$.
3. $70{,}693 - 26{,}985 = 43{,}708$ verifies the start.

Problem 7

1. The shared part is $48{,}600$.
2. $21{,}540 - 21{,}450 = 90$.
3. The totals are $70{,}140$ and $70{,}050$; their difference is 90.

Problem 8

1. Morning and afternoon give $28{,}750 + 36{,}480 = 65{,}230$.
2. Add evening: $65{,}230 + 10{,}176 = 75{,}406$.
3. $75{,}406 - 10{,}176 = 65{,}230$ checks the last step.

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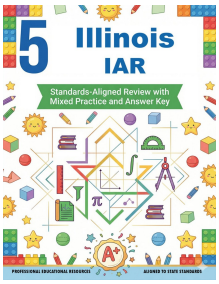

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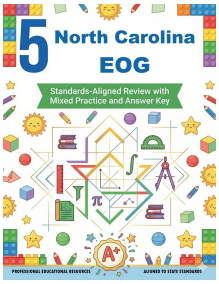

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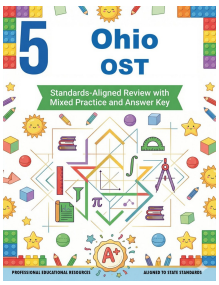

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