Adding and Subtracting Decimals

Adding and Subtracting Decimals: Apply, Compare, and Design

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

QUICK REVIEW

Align decimal points so like units combine. Add zeros if needed. For $4.7 - 1.86$, write $4.70 - 1.86 = 2.84$; regroup a whole as 10 tenths when needed. Check with $2.84 + 1.86 = 4.70$.

Worked example

Calculate $5.6 + 0.8$. Show the place-value or fraction calculation.

1. Align places: $5.6 = 560 \div 100$ and $0.8 = 80 \div 100$.
2. Combine hundredths: $560 + 80 = 640$.
3. $640 \div 100 = 6.4$; check $6.4 - 0.8 = 5.6$.
Answer: 6.4.

Practice Problems

Show your thinking.

1. A container holds 3.67 L. Another 2.86 L is added. How much is in the container now?

2. Choose the missing amount so this plan totals 2.37: $5.23 - \square$. Write the completed equation.

3. Plan A uses $12.85 + 4.78$ units. Plan B uses $12.85 + 4.88$ units. Which produces the larger amount, and by how much?

4. Each of two containers holds $7.26 - 0.89$ L. Another 0.1 L is added to their combined contents. Find the final volume.

5. Choose the missing amount so this plan totals 12.43: $8.76 + \square$. Write the completed equation.

6. Complete the two-output table for the rule: input -2.47. Inputs are 6.51 and 13.02. Compare the outputs.

Input	Output
6.51	
13.02	

7. A student writes $7.25 + 0.86 = 8.21$. Correct the result and check it.

8. Use an inverse operation to verify a proposed result of 7.47 for $15.4 - 7.93$. Show both computations.

Answer Key

1. 6.53 L.
2. 2.86; $5.23 - 2.86 = 2.37$.
3. Plan B by 0.1 units.
4. 12.84 L.
5. 3.67; $8.76 + 3.67 = 12.43$.
6. Outputs 4.04 and 10.55; second minus first is 6.51.
7. 8.11, not 8.21.
8. The result 7.47 is correct.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The quantities call for $3.67 + 2.86$; the result is measured in L.
2. Align places: $3.67 = 367 \div 100$ and $2.86 = 286 \div 100$.
3. Combine hundredths: $367 + 286 = 653$.
4. $653 \div 100 = 6.53$; check $6.53 - 2.86 = 3.67$.

Problem 2

1. Align places: $5.23 = 523 \div 100$ and $2.86 = 286 \div 100$.
2. Combine hundredths: $523 - 286 = 237$.
3. $237 \div 100 = 2.37$; check $2.37 + 2.86 = 5.23$.
4. Using 2.86 in the plan gives exactly 2.37.

Problem 3

1. Align places: $12.85 = 1285 \div 100$ and $4.78 = 478 \div 100$.
2. Combine hundredths: $1285 + 478 = 1763$.
3. $1763 \div 100 = 17.63$; check $17.63 - 4.78 = 12.85$.
4. Plan B: $12.85 + 4.88 = 17.73$ units.
5. The difference in amounts is 0.1 units.

Problem 4

1. Align places: $7.26 = 726 \div 100$ and $0.89 = 89 \div 100$.
2. Combine hundredths: $726 - 89 = 637$.
3. $637 \div 100 = 6.37$; check $6.37 + 0.89 = 7.26$.
4. Two containers hold $2 \times 6.37 = 12.74$ L.
5. After the addition: $12.74 + 0.1 = 12.84$ L.

Problem 5

1. Align places: $8.76 = 876 \div 100$ and $3.67 = 367 \div 100$.
2. Combine hundredths: $876 + 367 = 1243$.
3. $1243 \div 100 = 12.43$; check $12.43 - 3.67 = 8.76$.
4. Using 3.67 in the plan gives exactly 12.43.

Problem 6

1. Align places: $6.51 = 651 \div 100$ and $2.47 = 247 \div 100$.
2. Combine hundredths: $651 - 247 = 404$.
3. $404 \div 100 = 4.04$; check $4.04 + 2.47 = 6.51$.
4. Second output: $13.02 - 2.47 = 10.55$; difference $10.55 - 4.04 = 6.51$.

Problem 7

1. Align places: $7.25 = 725 \div 100$ and $0.86 = 86 \div 100$.
2. Combine hundredths: $725 + 86 = 811$.
3. $811 \div 100 = 8.11$; check $8.11 - 0.86 = 7.25$.
4. The claimed value differs by 0.1, so it fails the exact calculation.

Problem 8

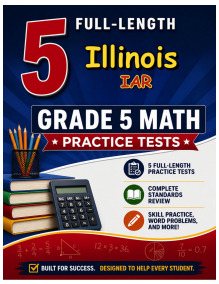
1. Align places: $15.4 = 1540 \div 100$ and $7.93 = 793 \div 100$.
2. Combine hundredths: $1540 - 793 = 747$.
3. $747 \div 100 = 7.47$; check $7.47 + 7.93 = 15.4$.
4. Inverse check: $7.47 + 7.93 = 15.4$.

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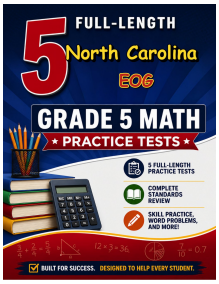
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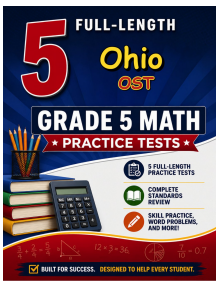
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