

Adding and Subtracting Decimal Numbers

Key Concepts to Remember

- Line up the decimal points to keep place values aligned.
- Whole numbers have hidden decimal points at the end (e.g., 7 is the same as 7.0).
- Add zeros as placeholders to make numbers easier to work with.
- Adding zeros to the end of a decimal doesn't change its value.
- Addition is commutative (order doesn't matter), but subtraction is not (order matters!).

How to Add Decimal Numbers

Steps:

Write the numbers vertically, lining up the decimal points.

Add zeros so all numbers have the same number of digits after the decimal.

Add as if they were whole numbers.

Examples

Example 1: Add $45.089 + 34.72$

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45.089
+34.720
```

79.809

Example 2: Add $5.4 + 7 + 0.785$

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5.400
+ 7.000
+ 0.785
```

13.185

Example 3: Add $4.7651 + 10.963 + 0.579 + 89.07$

```
4.7651
+10.9630
+ 0.5790
+89.0700
```

105.3771

How to Subtract Decimal Numbers

Steps:

Write the numbers vertically, lining up the decimal points.

Add zeros to match decimal places if needed.

Subtract as if they were whole numbers.

Regroup (borrow) when necessary.

Adding and Subtracting Decimal Numbers

Examples

Example 4: Subtract $34.075 - 29.892$

34.075
-29.892

4.183

Example 5: Subtract $75.27 - 36.984$

75.270
-36.984

38.286

Example 6: Subtract $8 - 0.034$

8.000
-0.034

7.966

Practice Problems

1. $456.09 + 15.078$
2. $76.01 + 13.078$
3. $5.2 + 12 + 34.06$
4. $0.034 + 3 + 1.29$
5. $438.1 + 0.078 + 23.95$
6. $15.785 - 12.92$
7. $13.01 - 8.321$
8. $7.2 - 0.863$
9. $437 - 56.97$
10. $12 - 0.0567$

Answers to Practice Problems

1. 471.168
2. 89.088
3. 51.26
4. 4.324
5. 462.128
6. 2.865
7. 4.689
8. 6.337
9. 380.03
10. 11.9433