Another Example
With **compensation**, adjust one or both numbers to make the calculation easier. Then adjust the difference or sum to get the final answer.

**Use compensation to subtract.**
Find $4.25 - 0.08$ mentally.

4.25 - 0.10 = 4.15

0.02 too much was subtracted

$4.25 - 0.08 = 4.17$

**Use compensation to add.**
Find $3.47 + 4.35$ mentally.

$3.50 + 4.35 = 7.85$

Add 0.03

Compensate, take away 0.03

$3.47 + 4.35 = 7.82$

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**Guided Practice**

**Do You Understand?**
1. **Be Precise** In the addition example above, why is the answer $0.03$ less than $7.85$?

2. Which problem is easier to subtract, $15.50 - 8.75$ or $15.75 - 9$? Explain.

**Do You Know How?**

In 3–6, use mental math to add or subtract.

3. $12 + 3.04 + 8.28$

4. $6.97 + 4.15$

5. $9.04 - 6.98$

6. $4.02 + 0.19 + 16.48$

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**Independent Practice**

**Leveled Practice** In 7–12, use properties and mental math to add or subtract.

7. $7.1 + 5.4 + 2.9 = _____ + 5.4 = _____$

8. $373.4 - 152.9 = 373.4 - _____ = 220.4 _____ + 0.1 = _____$

9. $18.25 + 7.99 + 4.75$

10. $1.05 + 3 + 4.28 + 0.95$

11. $2,504 + 140 + 160$

12. $35.7 - 14.8$

*For another example, see Set A on page 103.*
13. **Model with Math** Joanne bought three books that cost $3.95, $4.99, and $6.05. How much did she spend in all? Use compensation and mental math to find the sum.

\[\text{\$3.95} + \text{\$4.99} + \text{\$6.05} = \text{? spent}\]

14. **Construct Arguments** Use compensation to find each difference mentally. Explain how you found each difference.

- A \(67 - 29\)
- B \(456 - 198\)

15. **Number Sense** The table shows how many points Eduardo scored during each game. Use mental math to find how many points he scored in the first three games.

<table>
<thead>
<tr>
<th>Game</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>54</td>
</tr>
<tr>
<td>2</td>
<td>19</td>
</tr>
<tr>
<td>3</td>
<td>26</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
</tr>
</tbody>
</table>

16. On three different days at her job, Sue earned $27, $33, and $49. She needs to earn $100 to buy a desk for her computer. If she buys the desk, how much money will she have left over?

17. A shelf can hold 50 DVDs. Jill has 27 DVDs. She plans to buy 5 new ones. Each DVD costs $9. After she buys the new ones, how many more DVDs will the shelf hold?

18. **Reasoning** When finding the difference of two numbers mentally, can you use the Commutative Property? Explain.

19. **Higher Order Thinking** Daria bought a skein of alpaca yarn for $47.50, a skein of angora yarn for $32.14, a skein of wool yarn for $16.50, and a pair of knitting needles for $3.86. How much did she spend in all? Describe how you calculated your answer.

20. Mrs. Healer’s class took a field trip to a park 12.3 miles away. Mr. Dean’s class drove 4.9 miles to the public library. How much farther did Mrs. Healer’s class travel than Mr. Dean’s class? Explain how you used mental math to determine the difference.