# Addition Strategies

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|---|---|
| **Plus Zero** | Add 0 to a number and the number stays the same.<br><br>$3 + 0 = 3$ |
| **Count Up** $+1, +2, +3$ | Count up when adding on small numbers, such as 1, 2, or 3. |
| **Turn Around** | Add numbers in any order and the total stays the same.<br><br>$3 + 1 = 4 \qquad 1 + 3 = 4$ |
| **Doubles** | Add the number to itself and that number doubles.<br><br>$2 + 2 = 4$ |
| **Doubles Plus One** | Double the number and add one more.<br><br>$2 + 3 = 2 + 2 + 1$ |
| **Tens Partners** | There are six sets of number pairs that make 10:<br><br>$10 + 0 \qquad 9 + 1 \qquad 8 + 2$<br>$7 + 3 \qquad 6 + 4 \qquad 5 + 5$ |
| **Plus Ten** | When 10 is added to a number, the tens-place digit increases by one.<br><br>$12 + 10 = 22$ |
| **Plus Nine**<br><br>See 9. Think 10.<br><br>See 9. Make 10. | To add 9 to a number, add 10 instead and jump back one.<br><br>See $6 + 9$. Think $6 + 10 - 1$.<br><br>**OR**<br><br>To add 9 to a number, make the 9 a 10 by reducing the other addend by one.<br><br>See $9 + 4$. Make $10 + 3$. |

# Subtraction Strategies

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|---|---|
| **Minus Zero** | Subtract $0$ from a number and the number stays the same.<br><br>$8 - 0 = 8$ |
| **A Number Minus Itself** | Subtract a number from itself and the result is $0$.<br><br>$8 - 8 = 0$ |
| **Count Back** $-1, -2, -3$ | Count back to take away small numbers, such as $1, 2,$ or $3$.<br><br>$17 - 1 = 16 \quad 17 - 2 = 15 \quad 17 - 3 = 14$ |
| **Count Up** | Count up to find the difference when the numbers are close together.<br><br>$17 - 15 = 2 \quad$ Count up two from $15$ to $17$. |
| **Think Addition** | To subtract, think of the related addition fact.<br><br>$8 + 6 = 14 \quad$ so $\quad 14 - 6 = 8$ |
| **Tens Partners** | If you know the Tens Partners, then you know the related subtraction facts.<br><br>$7 + 3 = 10 \quad$ so $\quad 10 - 7 = 3$ |
| **Doubles** | If you know the addition doubles, then you know the related subtraction facts.<br><br>$6 + 6 = 12 \quad$ so $\quad 12 - 6 = 6$ |
| **Minus Ten** | Subtract $10$ and the tens-place digit decreases by one, while the ones-place digit stays the same.<br><br>$30 - 10 = 20$ |
| **Minus Nine**<br><br>See 9. Think 10.<br><br>See 9. Make 10. | Remember that $9$ is just one away from $10$.<br>Two common approaches are:<br><br>See $9$. Think $10$. Subtract $10$ and add $1$.<br>See $12 - 9$. Think $12 - 10 + 1$.<br><br>See $9$. Make $10$. Increase each number by one.<br>Turn $12 - 9$ into $13 - 10$. |