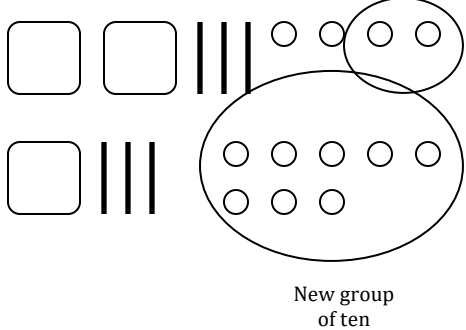
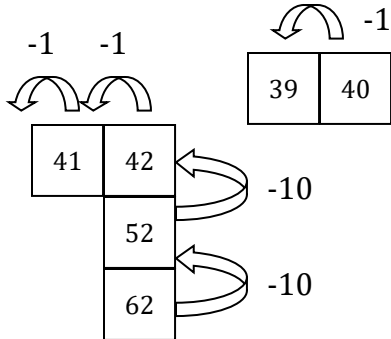
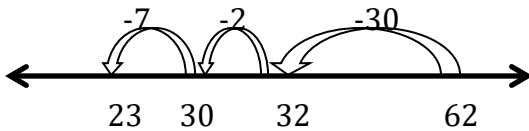


# Addition/Subtraction Strategy Cheat Sheet

Strategy	Procedure	Example	Vocabulary
<p style="text-align: center;"><b>Proof Drawing</b></p>	<ul style="list-style-type: none"> <li>Use base-ten drawings to represent partners (if adding) or total (if subtracting).</li> <li>If a new group of 10 ones or 10 tens is created in addition indicate the “new group”.</li> <li>If a hundred or ten needs to be ungrouped in subtraction mark through it and draw 10 tens or 10 ones to represent the ungrouped place.</li> </ul>	$\begin{array}{r} 234 \\ + 138 \\ \hline 372 \end{array}$ 	<p style="text-align: center;">Ones Tens Hundreds New Group Compose Ungroup Decompose</p>
<p style="text-align: center;"><b>Hundreds Board</b></p>	<ul style="list-style-type: none"> <li>Using a hundreds board, count on/back by tens by moving up and down the columns</li> <li>Count on/back by ones by moving across the rows.</li> <li>Students may choose to count on/back in the way that makes sense to them based on the problem.</li> </ul>	$\begin{array}{r} 62 \\ - 39 \\ \hline 23 \end{array}$ 	<p style="text-align: center;">Decade Ones Place Tens Place Hop/Jump Difference</p>
<p style="text-align: center;"><b>Expanded Method</b></p>	<ul style="list-style-type: none"> <li>Write the equation in expanded form.</li> <li>If ungrouping is necessary notate that above the expanded form equation.</li> <li>An answer will first be found in expanded form. Add together the hundreds, tens, and ones to find the answer.</li> </ul>	$\begin{array}{r} 436 = 400 + 30 + 6 \\ + 167 = 100 + 60 + 7 \\ \hline 500 + 90 + 13 = 603 \end{array}$ $\begin{array}{r} 90 \\ 500 \cancel{100} 13 \\ 603 = \cancel{600} + \cancel{0} + \cancel{3} \\ - 436 = 400 + 30 + 6 \\ \hline 100 + 60 + 7 = 167 \end{array}$	<p style="text-align: center;">Expanded Form Equation Ungroup</p>

Strategy	Procedure	Example	Vocabulary
<p>Number Line</p>	<ul style="list-style-type: none"> <li>Using an open number line students may move in sets of hundreds, tens, and ones</li> <li>Students may choose to count on/back in the way that makes sense to them based on the problem.</li> </ul>	$\begin{array}{r} 62 \\ -39 \\ \hline 23 \end{array}$ 	<p>Difference Hop/Jump</p>
<p>Show All Totals</p>	<ul style="list-style-type: none"> <li>Beneath the addition equation show the totals for the hundreds, tens, and ones places separately.</li> <li>Add these three totals (total hundreds, total tens, and total ones) to find the solution</li> </ul>	$\begin{array}{r} 436 \\ + 167 \\ \hline 500 \\ 90 \\ + 13 \\ \hline 603 \end{array}$	<p>Total</p>