

**TEKS for Mathematics “Rapid” Assessment: Grade K**

<b>K(3) Number and operations.</b> The student applies mathematical process standards to develop an understanding of addition and subtraction situations in order to solve problems.	<b>K(3)(A)</b> The student is expected to model the action of joining to represent addition and the action of separating to represent subtraction.
<b>Materials</b>	
<ul style="list-style-type: none"> <li>• 10 counters</li> </ul>	
<p>Procedure: Provide students with counters.</p> <p>Ask students to solve each of the following problems. Ask students to justify his or her answer by answering the question, “How do you know?”</p> <ol style="list-style-type: none"> <li><b>1. You have 2 pencils, and I give you 1 more. How many pencils will you have?</b></li> <li><b>2. There are 3 books on the table. Your mom puts 2 more books on the table. How many books will be on the table?</b></li> <li><b>3. You have 5 french fries, and your friend gives you 2 more. How many french fries will you have?</b></li> <li><b>4. There are 6 cows in the barn and 3 cows in the field. How many cows are there?</b></li> <li><b>5. There are 2 birds in the tree, and 1 flies away. How many birds are left?</b></li> <li><b>6. There are 5 cars in the parking lot, and 2 drive away. How many cars are left?</b></li> <li><b>7. You have 6 apples and eat 2 of them. How many apples do you have left?</b></li> <li><b>8. The tree has 8 apples, and you pick 5 apples off the tree. How many apples does the tree have left?</b></li> </ol> <p><i>This activity may be repeated using different numbers or different context.</i></p>	
<b>Check Student’s Responses:</b>	<b>Check Student’s Strategies:</b>
<ol style="list-style-type: none"> <li>1. <math>2 + 1</math> <ul style="list-style-type: none"> <li><input type="checkbox"/> 3</li> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> The student could justify the answer.</li> </ul> </li> </ol>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Counted aloud</li> <li><input type="checkbox"/> Used the counters</li> <li><input type="checkbox"/> Used his or her fingers</li> <li><input type="checkbox"/> Other:</li> </ul>
<ol style="list-style-type: none"> <li>2. <math>3 + 2</math> <ul style="list-style-type: none"> <li><input type="checkbox"/> 5</li> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> The student could justify the answer.</li> </ul> </li> </ol>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Counted aloud</li> <li><input type="checkbox"/> Used the counters</li> <li><input type="checkbox"/> Used his or her fingers</li> <li><input type="checkbox"/> Other:</li> </ul>
<ol style="list-style-type: none"> <li>3. <math>5 + 2</math> <ul style="list-style-type: none"> <li><input type="checkbox"/> 7</li> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> The student could justify the answer.</li> </ul> </li> </ol>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Counted aloud</li> <li><input type="checkbox"/> Used the counters</li> <li><input type="checkbox"/> Used his or her fingers</li> <li><input type="checkbox"/> Other:</li> </ul>

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<p>4. <math>6 + 3</math></p> <p><input type="checkbox"/> 9</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> The student could justify the answer.</p>	<p><input type="checkbox"/> Counted aloud</p> <p><input type="checkbox"/> Used the counters</p> <p><input type="checkbox"/> Used his or her fingers</p> <p><input type="checkbox"/> Other:</p>
<p>5. <math>2 - 1</math></p> <p><input type="checkbox"/> 1</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> The student could justify the answer.</p>	<p><input type="checkbox"/> Counted aloud</p> <p><input type="checkbox"/> Used the counters</p> <p><input type="checkbox"/> Used his or her fingers</p> <p><input type="checkbox"/> Other:</p>
<p>6. <math>5 - 2</math></p> <p><input type="checkbox"/> 3</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> The student could justify the answer.</p>	<p><input type="checkbox"/> Counted aloud</p> <p><input type="checkbox"/> Used the counters</p> <p><input type="checkbox"/> Used his or her fingers</p> <p><input type="checkbox"/> Other:</p>
<p>7. <math>6 - 2</math></p> <p><input type="checkbox"/> 4</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> The student could justify the answer.</p>	<p><input type="checkbox"/> Counted aloud</p> <p><input type="checkbox"/> Used the counters</p> <p><input type="checkbox"/> Used his or her fingers</p> <p><input type="checkbox"/> Other:</p>
<p>8. <math>8 - 5</math></p> <p><input type="checkbox"/> 3</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> The student could justify the answer.</p>	<p><input type="checkbox"/> Counted aloud</p> <p><input type="checkbox"/> Used the counters</p> <p><input type="checkbox"/> Used his or her fingers</p> <p><input type="checkbox"/> Other:</p>
<p><b>Notes:</b></p>	

<p><b>K(3)(A)</b> The student is expected to model the action of joining to represent addition and the action of separating to represent subtraction.</p>	<p><b>Possible interpretations, issues to follow up on, and implications for teaching</b></p>
<p><b>What did you observe?</b></p> <ul style="list-style-type: none"> <li>• The student <b>counted aloud</b>. This is an appropriate strategy.</li> <li>• The student <b>used his or her fingers</b>. This is a reliable strategy for small numbers, but it is not efficient, particularly for larger numbers.</li> <li>• The student <b>used counters</b>. Consider how he or she used the counters to solve the problem: <ul style="list-style-type: none"> <li>▪ The student counted from 1.</li> <li>▪ The student counted on from the larger number (e.g., for ‘5+2’ she selected 5 blocks and counted five, six, seven).</li> </ul> </li> </ul> <p><b>How do you know?</b></p> <p>After a student solves a problem, regardless of accuracy, ask the student to justify his or her response in order to further understand the student’s thinking.</p>	