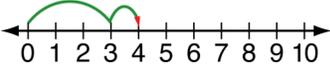


When working with **elementary (PK-5th grade)** students,

**You can NEVER do enough of the following things:**

You Can Never Do Enough...	Because...
<p style="text-align: center;">Modeling with <b>NUMBER LINES</b></p> <p style="text-align: center;"><math>3 + 1 = 4</math></p> 	<ul style="list-style-type: none"> <li>• It helps to visualize addition and subtraction as movement.</li> <li>• It reinforces the importance of 10 in the base 10 number system.</li> <li>• It give students a visual representation for many topics</li> <li>• It is easy to draw anywhere, anytime</li> <li>• It is familiar to most students, so it gives most students language to enter and discuss the problem</li> </ul> <p><b>Try it with...</b></p> <p>Negative numbers (use wind chill as a reference)</p>
<p style="text-align: center;"><b>SKIP COUNTING</b></p>	<ul style="list-style-type: none"> <li>• It is easy to do anywhere, anytime</li> <li>• It can be adapted for students at ANY grade-level</li> <li>• It reinforces pattern recognition and repetition, which can transition into discussions about rules and equations</li> <li>• It flexes the mental math muscle</li> </ul> <p><b>Try it with...</b></p> <p>2's, 5's, 10's, 4's and 3's</p> <p>Start at a number not ending in zero and count by 10's (34, 44,...)</p> <p>Counting Backwards</p>
<p style="text-align: center;">Solving multiple types of <b>STORY PROBLEMS</b></p>	<ul style="list-style-type: none"> <li>• Problems put in the context of a story help students visualize the action of the math.</li> <li>• Story problems put math into a real world context and can engage student interests.</li> </ul> <p><b>Try it with...</b></p> <p><u>Non-Traditional Problems</u>: <math>3 + \square = 7</math> Story: I have 3 books. I got some more at the library. Now I have 7. How many did I get at the library?</p> <p><u>Comparing Problems</u>: Sara has 6 dollars. Mike has 10 dollars. How many more dollars does Mike have?</p>
<p style="text-align: center;">Getting students to <b>EXPLAIN THEIR THINKING</b></p>	<ul style="list-style-type: none"> <li>• It forces students to think about what they are doing, not just getting the answer.</li> <li>• It gives better insight into student understanding and reveals misconceptions.</li> </ul> <p><b>Try it with...</b></p> <p>“How did you figure that out?”</p> <p>“So you are saying...” or “Why did you do it that way?”</p>

