## CGI Questioning: Moving Students Thinking Along the Continuum

Direct Modeling to Counting  Explain/Elaborate  What does this represent? How did you get this? What do you know about this number? What did you do first? Second? What's happening in this problem? What do you need to	Counting to Derived Facts  Explain/Elaborate  Can you show me how you solve this? How did you count this? What in the problem are you counting? Can I hear you count? Show me your counting.	Derived Facts to Invented Algorithm Explain/Elaborate How did you solve this? What do these numbers mean in the problem? Can you prove it? Why does this work?
figure out?  Show me how you counted it. How do you know that?  Extend  Is there a more efficient way to count this? Can you organize this so that you can count more	Extend  What do you know about this number? What math facts can help you?	Extend  Does this work in all situations?  Does this work if I change
efficiently?  How many 5's/10's in  ? Can you show me using a different tool, or less tools?  Can you show this without the tools?  Can you take what you know about small	<ul> <li>How many groups of are in this number?</li> <li>Since you know that there are in, how many are in?</li> <li>Is this number close to a friendly number?</li> <li>Can this number be decomposed into easier</li> </ul>	<ul> <li>Can you prove this using a different strategy?</li> <li>Can you write a conjecture?</li> <li>Is there a rule or pattern about this type of problem that we could use?</li> <li>Can you take what you know about small numbers and use it for</li> </ul>
numbers and use it for larger numbers?  Can you take what you know about whole numbers and use it for fractions?  What number sentence	parts? Can you take what you know about small numbers and use it for larger numbers? What number sentence	larger numbers?  • What number sentence
matches your thinking? Can you write out the steps for how you solved this?	matches your thinking?  Can you write out the steps for how you solved this?	matches your thinking?  Can you write out the steps for how you solved this?

<sup>\*</sup>Collaboratively created by Alvarado, Cotsen, and UCLA Center X