Things to add to the quiz:

1. There should be options for non-competitive/non-timed; competitive; timed, limited resources (for this quiz, it should be only be the first three)
2. There should be options for antagonist character
3. Timed event for the question -
   1. if time is ¼, then event should happen – warning or hint.
   2. If time is 1/2, the event should happen – warning or hint.
   3. If time is ¾ , then event should happen – hint
4. Hint should not be the answer
5. There needs to be a follow up question option before a question. Thus, the professor can require that before a student can move onto the next questions, they must answer a follow-up question.
6. There should be feedback for each incorrect answer
7. There needs to be a follow question that is tied to the original question – for example in the computation question – the follow up question is supposed to make sure that the student understands the reason for the correct answer – that is,   
   “You’re right, 45 is the correct answer. Is this because
   1. The proper computational order requires computation inside parentheses first.
   2. The proper computational order flows from left to right.
8. There should be a follow up question for a wrong answer that asks a similar question.
9. There also needs to be an option for a professor to allow a student to have multiple attempts to answer a question (1 time for one choice only, or x times up to the correct answer)

<!--path list--!>

<path\_list>

<path id="1">~/images/angles/acute\_angle1.jpg</path>

<path id="2">~/images/angles/obtuse\_angle1.jpg</path>

<path id="3">~/images/angles/acute\_angle2.jpg</path>

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<item>

<id>1</id>

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<area>arithmetic</area>

<topic\_list>

<topic>computation</topic>

</topic\_list>

<expression>dialog</expression>

<learning\_taxonomy\_list>

<learning\_taxonomy>application</learning\_taxonomy>

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<stem\_description>Evaluate the below expression</stem\_description>

<question\_list>

<question>

<question\_id>1</question\_id>

<topic\_list>

<topic>computation</topic>

</topic\_list>

<depth>Easy</depth>

<stem\_lead-in\_questions>5 + 5(10 - 2)</stem\_lead-in\_questions>

<option\_list>

<correct\_option>45</correct\_option>

<incorrect\_option>25</incorrect\_option>

<incorrect\_option>65</incorrect\_option>

<incorrect\_option>53</incorrect\_option>

</option\_list>

<hint>5 + 5(10 - 2) => 5 + 5(8) => 5 + 40 => 45</hint>

<correct\_feedback>Well done!</correct\_feedback>

<incorrect\_feedback>Wrong answer!</incorrect\_feedback>

<correct\_follow\_up\_question\_list>2</correct\_follow\_up\_question\_list> <!-- Item\_id of the next question -->

<incorrect\_follow\_up\_question\_list>3</incorrect\_follow\_up\_question\_list>

</question>

</question\_list>

</item>

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<area>geometry</area>

<topic\_list>

<topic>figurative</topic>

</topic\_list>

<expression>dialog</expression>

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<stem\_description>Identify the angles</stem\_description>

<image\_list>

<path id="1">A</path>

<path id="2">B</path>

<path id="3">C</path>

</image\_list>

<question\_list>

<question>

<question\_id>2</question\_id>

<topic\_list>

<topic>figurative</topic>

</topic\_list>

<depth>Easy</depth>

<stem\_lead-in\_questions>In the given diagrams identify all the acute angle?</stem\_lead-in\_questions>

<option\_list>

<correct\_option>Both A and C</correct\_option>

<incorrect\_option>None</incorrect\_option>

<partial\_option>Only A</partial\_option>

<incorrect\_option>Both A and B</incorrect\_option>

<incorrect\_option>All of them</incorrect\_option>

</option\_list>

<hint>Any angle from 0 degrees to 90 degrees are called acute angles.</hint>

<correct\_feedback>Well done!</correct\_feedback>

<incorrect\_feedback>Wrong answer!</incorrect\_feedback>

<partial\_feedback>Partially correct!</partial\_feedback>

<correct\_follow\_up\_question\_list>4</correct\_follow\_up\_question\_list> <!-- Item\_id of the next question -->

<incorrect\_follow\_up\_question\_list>3</incorrect\_follow\_up\_question\_list>

<partial\_follow\_up\_question\_list>3</incorrect\_follow\_up\_question\_list>

</question>

</question\_list>

</item>

</item\_list>

<!--references: from the Wisconsin Knowledge and Concepts in Math Grade 4 Guide--!>

<!--Area A: Mathematical Processes --> <processes>

Area B: Number Operations and Relationships --> <arithmetic>

Topic B.a.: Concepts --> <concepts>

Topic B.b.: Computation --> <computation>

Area C: Geometry --> <geometry>

Topic C.a.: Describe figures --> <figurative>

Topic C.b.: Spatial relationships and transformations --> <spatial>

Topic C.c.: Coordinate Systems --> <coordinate>

Area D: Measurement --> <measurement>

Topic D.a.: Measurable attributes --> <measurable>

Topic D.b.: Direct measurement --> <direct>

Topic D.c.: Indirect measurement --> <indirect>

Area E: Statistics and Probability --> <data\_analysis>

Topic E.a.: Data analysis and statistics --> <statistics>

Topic E.b.: Probability --> <probability>

Area F: Algebraic Relationships --> <algebra>

Topic F.a.: Patterns, relations and functions --> <relations>

Topic F.b.: Expressions, equations and inequalities --> <expressions>

Topic F.c.: Properties --> <properties>

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