What is ANI 2.0?
ANI 2.0 is an evidence-based, fully online program in effective standards-aligned mathematics instruction for adults. It is an update to the Adult Numeracy Instruction (ANI) Professional Development.

What is the focus of ANI 2.0?
- Improving teachers’ mathematical knowledge and the quality of their instruction
- Improving student outcomes and attainment of short- and long-term educational and employment goals
- Communicating the principles of the original ANI course at a greater intensity and duration
- Sharing new research on pedagogy and curriculum (learning) resources
- Contextualized learning and practical application

What is the organization of ANI 2.0?
- Six instructional modules focused on pedagogy and mathematical content
- Alternating synchronous and asynchronous sessions within each module
- Online delivery to optimize access
- Two training facilitators support each state team

When will ANI 2.0 be available to states?
ANI 2.0 is currently being field tested in six states: Idaho, Minnesota, Michigan, Louisiana, Pennsylvania, and New Jersey.

The field test, which began October 22, 2021 and concludes May 4, 2022, will inform revisions to the program in summer of 2022. The ANI 2.0 PD program will be available to states through the LINCS Technical Assistance and Professional Development Center in early 2023.

For more information about the project, contact Maria Salciccioli at msalci@wested.org

MODULE TOPICS
Module 1
The Big Ideas of Adult Numeracy: Foundations of the ANI 2.0 PD Program

Module 2
Instructional Routines and Formative Assessment Practices That Promote Positive Mathematical Identities

Module 3
Essential Understandings and Operations With Whole and Rational Numbers

Module 4
Essential Understandings and Applications of Algebraic Thinking

Module 5
Essential Understandings and Applications of Geometry and Measurement

Module 6
Essential Understandings and Applications of Data, Statistics, and Probability
Problem-Based Task Example

ANI 2.0 uses different types of problem-based tasks to promote conceptual understanding. A problem stem is a word problem in which the question has been removed.

**Candy Jar Problem Stem**

A candy jar contains 5 Jolly Ranchers (JRs) and 13 jawbreakers (JBs). Suppose you had a new candy jar with the same ratio of Jolly Ranchers to jawbreakers, but it contained 100 Jolly Ranchers.

With the question removed, participants are asked to identify all the quantities and relationships they see in the problem stem.

<table>
<thead>
<tr>
<th>Quantities</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of JRs</td>
<td>For every 5 JRs, there are 13 JBs</td>
</tr>
<tr>
<td>The number of JBs</td>
<td>For every 13 JBs, there are 5 JRs</td>
</tr>
<tr>
<td>The number of candy jars</td>
<td>For every JR, there are 2.6 JBs</td>
</tr>
</tbody>
</table>

After making the important distinction between a mathematical quantity and a mathematical relationship, participants create a diagram, allowing connections to be made among verbal, contextual, and visual representations.

The activity concludes with participant reflections on (1) the core mathematics of the task, (2) how this approach can support learners in understanding and solving word problems, and (3) the types of questions that can now be posed.


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