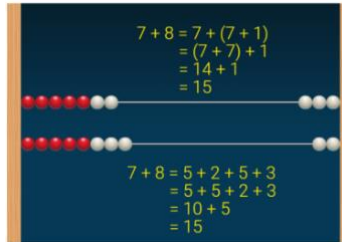




1st Grade Unit 2:

Building and Explaining the Relationship Between Addition and Subtraction



Overview:

In this unit, students will consider 10 as a useful organizer, begin to see numbers in relation to 10, and see large numbers as groups of 10 and some more. Students will use number relationships to develop addition and subtraction strategies as they engage in real world problem solving and model with mathematics. Students will continue to investigate real-life situations via inquiry. They will ask questions for investigation and answer them based on gathered information, observations, and appropriate graphical displays to compare and the whole numbers.

Learning Targets:

In Unit 2, students will:

- Explore, understand, and apply the commutative and associative properties as strategies for solving additional problems. Students are not required to know the names of the properties (understanding and applying the properties is the focus).
- Share, discuss, and compare strategies as a class.
- Connect counting on to solving subtraction problems. For the problem “ $15 - 7 = ?$ ” they think about the number they can count on from 7 to get to 15. Recognize and use number relationships such as counting on and counting back to understand number relationships.
- Work with sums and differences less than or equal to 20 using the numbers 0 to 20.
- Identify, describe, and then apply a pattern or structure in mathematics. For example, pose a string of addition and subtraction problems involving the same three numbers chosen from the numbers 0 to 20, such as $4 + 13 = 17$ and $13 + 4 = 17$.
- Analyze number patterns and create conjectures or reasonable guesses.
- Understand that addition and subtraction are related, and that addition can be used to solve subtraction problems where the addend is unknown.
- Organize and record quantities using tallies and tables.
- Determine the missing quantity in any position of an equation.

Key Vocabulary: (linked to GA DOE Interactive Glossary)

| | | | |
|----------------------|-------------------|------------------|------------|
| Greater than ($>$) | Less than ($<$) | Equal to ($=$) | Comparison |
| Inequality | Sum | Compose | Decompose |
| Equation | Data | Tally/tallies | Addends |

Supporting Resources:

<http://ctlslearn.cobbk12.org/>

<https://apps.mathlearningcenter.org/number-frames/>

<https://gavirtual.instructure.com/courses/34716#modules>

<https://toytheater.com/addition-scale/>

<https://www.geogebra.org/m/av6psbf7#material/mA3P9pWX>

<https://toytheater.com/missing-addend/>