### Session Objectives:
Participants will understand
- explore the big idea of the unit and work with unit language,
- study the four components of the number core and their relationship to addition and subtraction,
- review the progression of strategies for composition and decomposition and their relationship to place value, and
- practice with physical and written representations of the standard algorithms for addition and subtraction.

### TIME | AGENDA | DESCRIPTION
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**Zoom Session 1**  
2 hours &nbsp; Number Core  
Three Levels of Problem Solving for Addition  
Progression of Strategies for Addition  
Standard Algorithm for Addition  
**During the first virtual PD session, participants will**
- deepen their understanding of the four aspects of the number core and their relationship to addition,  
- use the make ten addition strategy and the skills it requires,  
- study concrete and pictorial representations that build conceptual understanding of addition, and  
- relate physical and written representations of the standard algorithms for addition.

**Interim Work and Lunch Break**  
2 hours &nbsp; Professional Reading  
Grade Level Problems  
**To prepare for the second virtual PD session, participants will**
- read the Progression Document Appendix, “Methods Used for Solving Single-Digit Addition and Subtraction Problems,”  
- reflect on the relationship between addition and subtraction, and  
- apply strategies from session 1 to grade level problems.

**Zoom Session 2**  
2 hours &nbsp; Three Levels of Problem Solving for Subtraction  
Progression of Strategies for Subtraction  
Standard Algorithm for Subtraction  
Summary of Session  
**During the second virtual PD session, participants will**
- use take from ten subtraction strategies and the skills they require,  
- study concrete and pictorial representations that build conceptual understanding of subtraction,  
- relate physical and written representations of the standard algorithms for subtraction, and  
- synthesize the learning of the day through problem solving.