





## VIRTUAL SOLVING WORD PROBLEMS: A STORY OF RATIOS® AND A STORY OF FUNCTIONS®

## **Session Objectives:**

Participants will understand

- study the use of a tape diagram to aid students in algebraic fluency and modeling word problems and
- practice guiding struggling students through the modeling stages of a word problem to develop their ability to represent the problem algebraically.

TIME	AGENDA	DESCRIPTION
Zoom Session 1 2 hours	Opening Examples Stages of Modeling Expressions to Equations	During the first virtual PD session, participants will  assess their current understanding of tape diagrams,  experience the utility of tape diagrams and examine how they can be used to model algebraic thinking, and  practice building tape diagrams as a scaffold to both build conceptual understanding and develop fluency with expressions and equations.
Interim Work and Lunch Break 2 hours	Lulu's Problem Professional Reading Additional Tape Diagram Practice	To prepare for the second virtual PD session, participants will  • practice building tape diagrams to both model algebraic thinking and explore a challenging Summary Problem and  • read and annotate "Modes of Instruction."
Zoom Session 2 2 hours	Transistion into Word Problems  Conclusion/Q&A	<ul> <li>During the second virtual PD session, participants will</li> <li>engage with the Read-Draw-Write (RDW) process and</li> <li>practice building tape diagrams as a scaffold to both build conceptual understanding and develop fluency with word problems.</li> </ul>

## **Two-Day Scheduling Option**

It is recommended that schools complete parts 1 and 2 of the virtual session in one day. However, schools may choose to schedule parts 1 and 2 on two adjacent days.