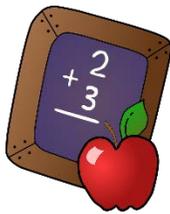


# The Heartbeat of Number Sense



**Math Fact Fluency**  
**January 29, 2019**  
**9:00-3:30pm**

**Attention**  
-Primary teachers  
-Math coaches  
-Principals

Give your primary students a leg up for Math ILearn testing by teaching them *strategies* for addition and subtraction fact fluency. Research says that learning relationships among facts and using these reasoning strategies fosters number sense. Now available-- a program to help teachers teach that foundational addition and subtraction fluency standard. Spend the day learning time proven methods for moving students from counting to mental fluency--all in 20 minutes a day. Ginnie and Ginger have designed a workshop to train and equip teachers to implement our programs:

A Strategic Approach to Addition Fact Fluency and Subtraction-A Better Way of Thinking.



**The digital programs teachers will receive include:**

**PowerPoints**-help the teacher lead students in the discovery of strategies with manipulatives.

**Songs**-help reinforce the language of the strategies.

**Games**-give needed practice in strategic thinking

**Worksheets**-give daily written practice

**Quick Guide** for the teacher-provides a blueprint for planning.

Check out <https://www.frameworks-mathfactfluency.com/> for sample materials and a review of the program each participant will receive.

**When: Tuesday, January 29, 2019**

**Where: Wilson Education Center**  
**2101 Grace Avenue**  
**Charlestown, IN 47111**

**Time: Registration: 8:30**

**Workshop: 9:00—3:00**

**Cost: \$50.00 WESC Member**  
**\$100.00 Non-Member**

**Registration: <https://wesc.k12.in.us>**

**6 Professional Growth Points Awarded**

**Lunch will be provided**

**A minimum of 15 participants are required to hold this event. All registered attendees will be invoiced.**

**About our presenters:** Virginia Luce and Virginia Smith— “Ginnie & Ginger” met in their undergraduate days at Purdue University. Motivated to develop a means to help second graders learn basic facts Ginnie had written songs and created a way for students to use “place value” as a way to visualize the harder subtraction problems. With Ginger’s encouragement Ginnie has expanded her materials to include not only a Subtraction Program but the Addition Program as well. Ginnie and Ginger have both presented their professional passions locally, regionally, and nationally. Their hope is that they can share what they have learned in their careers about learning basic facts and the impact it has on the development of number sense and problem solving.