UNDERSTANDING COMMON CORE MATH-An Interactive Parent Workshop

Eagle Canyon Elementary

AGENDA

- Common Core Math Instructional Shifts
- Understanding Math Shifts
- Breakout Sessions by Grade Level- An Interactive Approach to Math
  - Proceed to the classroom of your child's grade level.

Essential Question

What are the instructional shifts in math due to common core and how are these being presented during classroom instruction?

INSTRUCTIONAL MATH "SHIFTS"

- Greater focus on fewer topics
- Coherence –linking topics and thinking across grade levels
- Rigor –conceptual understanding, procedural skills and fluency, and real world applications

Why is Math Different?

Why MATH Shifts May Seem Hard

- It makes parents feel less knowledgeable
- People tend to struggle with change and new ways of doing things
- Common Core has become highly politicized-especially in the current realm of social media

Reasonable approach: Take a few minutes to learn alongside your child.

UNDERSTANDING MATH SHIFTS

Focus

Not mile-wide, inch-deep curriculum but rather **narrow and deepen** the way time and energy are spent in the classroom:

Grades K-2: Concepts, skills, and problem solving related to **addition and subtraction**

Grades 3-5: Concepts, skills, and problem solving related to **multiplication and division** of whole numbers and fractions

Grade 6: **Ratios and proportional relationships** and early **algebraic expressions and equations**

Grade 7: **Ratios and proportional relationships** and **arithmetic of rational numbers**

Grade 8: **Linear algebra** and **linear functions**

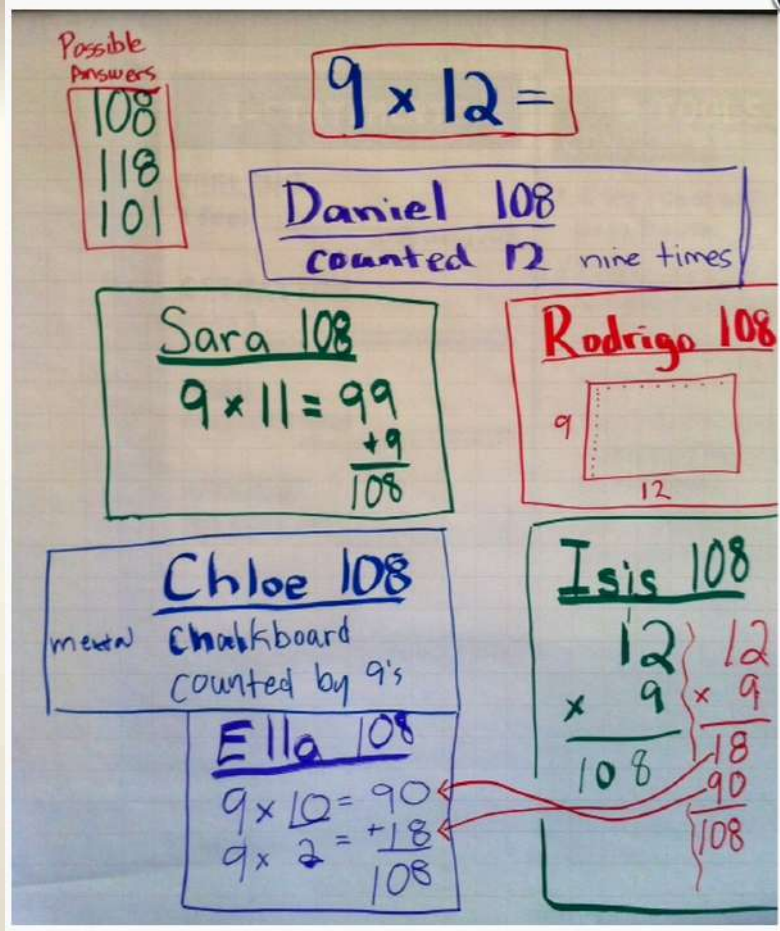
UNDERSTANDING MATH SHIFTS

Coherence

- Math is a coherent body of knowledge made up of **interconnected concepts**
- Standards are designed around coherent progressions from **grade to grade**
- Carefully connected across grades to students can **build new understanding from previous years**
- Coherence built into standards by reinforcing major topics by utilizing supporting topics

UNDERSTANDING MATH SHIFTS

Rigor



- Rigor is **deep, authentic command** of mathematical concepts

- Three aspects or rigor to pursue with equal intensity:
  - **Conceptual understanding**: more than a set of procedures (Why? Explain. How do you know? Describe.)
  - **Procedural skills and fluency:** speed and accuracy
  - **Real world application:** applying mathematical knowledge in situations

Breakout Sessions

K/1-Room 8

2nd-Room 10

3rd- Room 12

4th/5th- Room 20

6th-Room 17