

# **Student Work as a Context for Student Learning** Jennifer L. Nimtz, Nicholas J. Gilbertson, Kevin A. Lawrence, Amy Elizabeth Ray, Alden J. Edson, Yvonne Grant, Elizabeth Phillips



## UNIVERSITY



### Frequency of CGSW

#### Narrative/Exposition

- College Preparatory Mathematics:100% (9/9)
- Big Ideas MATH: 0% (0/5)
- Connected Mathematics3:76% (13/17)

#### Homework

- College Preparatory Mathematics: 3% (2/65)
- Big Ideas MATH: 2% (3/168)
- Connected Mathematics3: 7% (11/164)

# **Preliminary Results**

#### Location

- College Preparatory Mathematics almost all in class.
- Big Ideas MATH all in homework
- Connected Mathematics3 mixed in both homework and in class

### **Determine what the student did** to solve the problem

Predominantly in College Preparatory Math Two instances in Connected Mathematic3

## Limitations

- Small sample size only looked at units on similarity
- Only looked at one unit from three sets of Grade 7 materials
- Lack of research on Curriculum-Generated Student Work to the analytic framework



### **Emphasis on Math Understanding**

- About 1/3 categorized as focusing on methods, procedures, and approaches
- About 2/3 categorized as focusing on insights, connections, and relationships
- Few items were collectively double coded.

#### **Comparing Different Strategies**

- Few instances in College Preparatory Mathematics and Big Ideas
- More frequent in Connected Mathematics3

## **Future Work**

- Further refinement of analytic framework
- Studying the role and impact of CGSW in classrooms, how teachers use it, any effects on student learning Are there other types of CGSW beyond similarity?
- Does framework and criteria extend to other types of student work (e.g. teacher- and student-generated)?



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