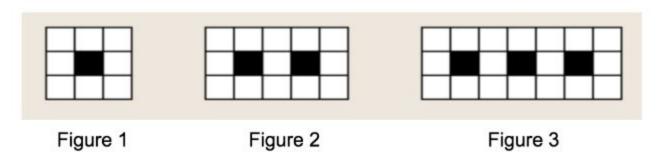
#### Create a poster showing how you solved the problem:

Mary and Jason are building a flower garden where each plant has its own special place in the garden. Jason is going to Home Depot to buy bricks to separate the flowers and Mary is going to Wilson farms to buy the flowers. Mary will call Jason and tell him how many flowers she bought. Jason wants to be able to quickly figure out how many bricks to buy based on the number of plants Mary buys. Help Jason get ready.



# **Gallery Walk**

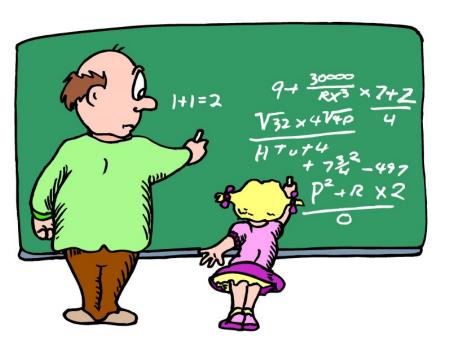
- What do you *notice* about the solutions?

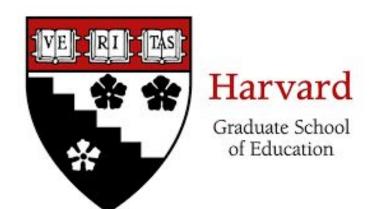
- What do you wonder about the solutions?

# 21st Century Posters: Stimulating Student Discourse through Digital Displays

Sarita Spillert sspillert@cuethink.com

#### Who Am I?







#### **Standards for Mathematical Practices**

#### **QCUETHINK**



01 Make sense & persevere



05 Use appropriate tools strategically



02 Reason abstractly & quantitatively



06 Attend to precision



03 Construct arguments & critique



07 Look for and make use of structure



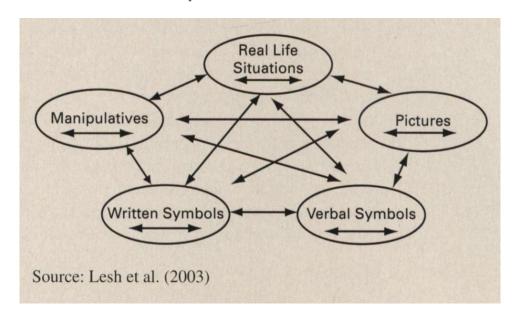
04 Model with mathematics



08 Use repeated reasoning



"To develop strategic competence and adaptive reasoning, students need opportunities to share and compare their solution strategies and explore alternative solution paths." (Suh, 2007)

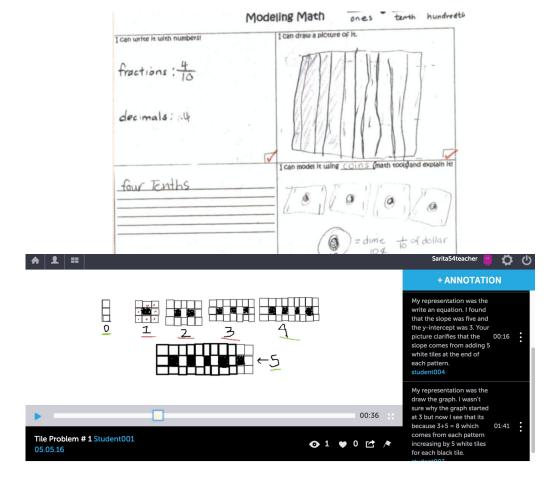


Name :	date:	Conc	ept:	
Modeling Math Meaningfully				
I Can write it with numbers!		I Can draw a picture of it.		
I can write a story problem.		I can model it using my thinking	math tools and explain	

	Modeling Math ones tenth hundredti
I can write it with numbers!	I can draw a picture of it.
fractions: 4	
decimals: .4	I can model it using COIDS (math cools) and explain its
four Tenths	[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
	= dime to of dollar
I can write it with word	ts. Make Real World Connections

#### Presenter:

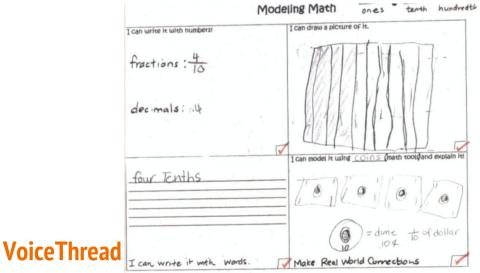
- Voice, Video
- Online tools images
- Create digital gallery

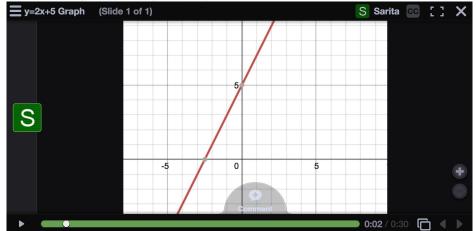


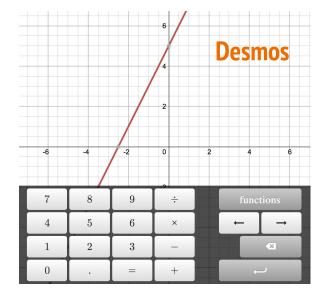
**CueThink** 

#### Audience:

- Better comprehension
- More Processing time
- Ownership of questioning
- Asynchronous







"The word *assess* comes from the Latin *assidere*, which means *to sit beside*. Literally then, *to assess* means to *sit beside the learner*."

(Evangeline Harris Stefanakis, 2002, p.9)

### **Explore & Share: Tools**











## **Explore & Share:** <a href="http://tinyurl.com/VirtualPosters">http://tinyurl.com/VirtualPosters</a>

- 1) Create a Virtual Poster for the "Tile Problem."
- 2) Share a link to your work on Padlet
- 3) Look at two other people's representations and write on a sticky note:
  - a connection to your work
  - a constructive feedback
  - a compliment

Tweet your poster @sspillert #nycmp #25conference #makemathsocial

#### **Virtual Poster Debrief**

 What are the *similarities* and *differences* of digital vs traditional posters?

 What benefits do virtual posters have over traditional posters?

• What are the *drawbacks* of virtual posters?

## **Making Virtual Displays Work**

Select tasks that encourage multiple strategies.

#### **Open Task Resources**

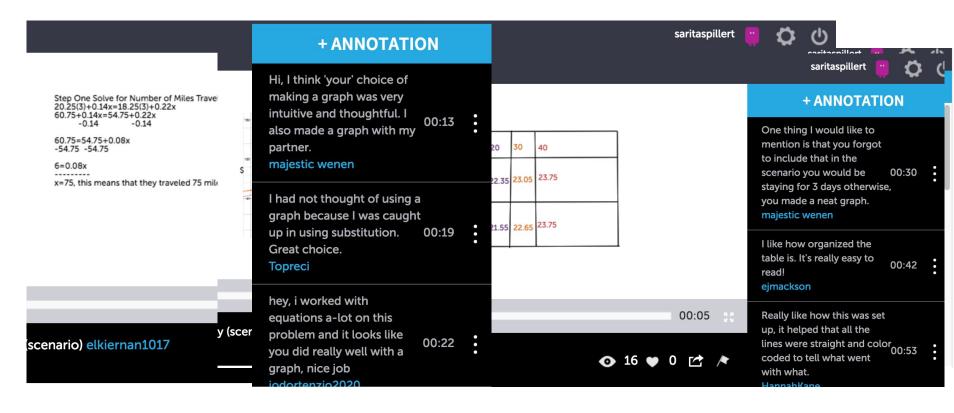
http://www.openmiddle.com/

http://nrich.maths.org/frontpage

http://mathforum.org/pow/teacher/samples.html

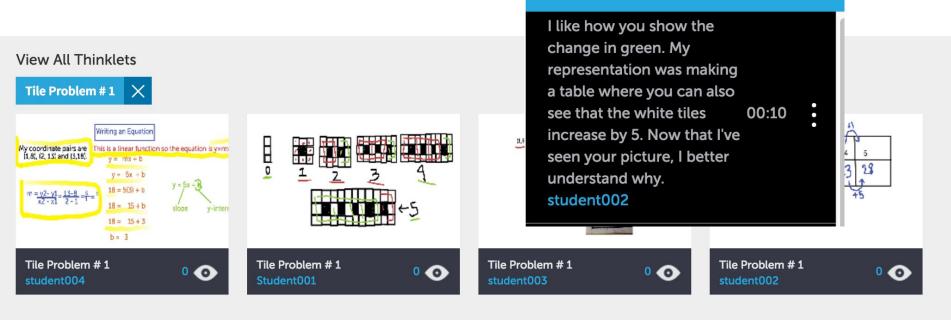
http://www.cuethink.com/

## See what strategies students choose



Assign different representations for students to create and then compare 

+ ANNOTATION



### Structure the feedback process

- One thing you did well was...
- If you did ... it would help ...
- A connection between our representations is ...

#### + ANNOTATION

One thing I would like to mention is that you forgot to include that in the scenario you would be 00:30 staying for 3 days otherwise, you made a neat graph.

majestic wenen

#### + ANNOTATION

Hi, I think 'your' choice of making a graph was very intuitive and thoughtful. I also made a graph with my partner.

majestic wenen

#### No small task...

"Teachers must create *dynamic classroom environments* in which students are allowed to take *ownership of the discussions* at hand.

For many teachers, making the *transition* to promoting *student-*

directed investigations is no small task. "

(Frykholm, 2001)

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