Centering Student Voice and Discourse

Claire M. Riddell
Zachary Champagne
June 16, 2023

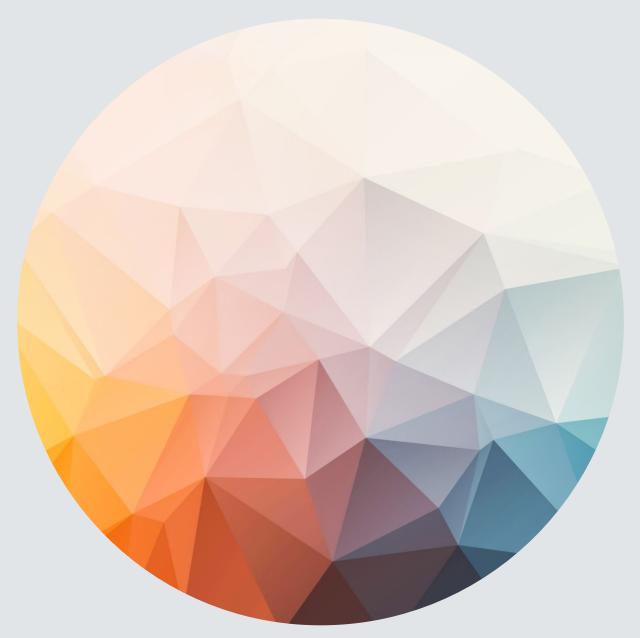
FCTM Annual Conference



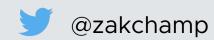
Where do you find joy in the teaching and/or learning of mathematics?







Why student voice and discourse?



The Progression of Our Thinking and Learning

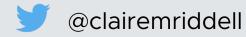
How do we make math class less teacher driven?

How do we ask the right questions?

How do we get kids to talk?

How do we help teachers listen?

How do we help kids talk and listen to each other?





Questions We've Been Asking Ourselves

Is it worth talking about?

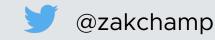
Who has mathematical authority?

What structural routines are in place to support conversation?

What type of communication is valued or privileged?

How is the room and/or students organized?





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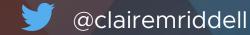
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Is it Worth Talking About?

Rich Tasks

(Three Act Tasks, Estimation 180, Estimysteries, etc.)

Pedagogical Routines

(Which One Doesn't Belong, Notice/Wonder, How Many?, Number Talks, etc.)

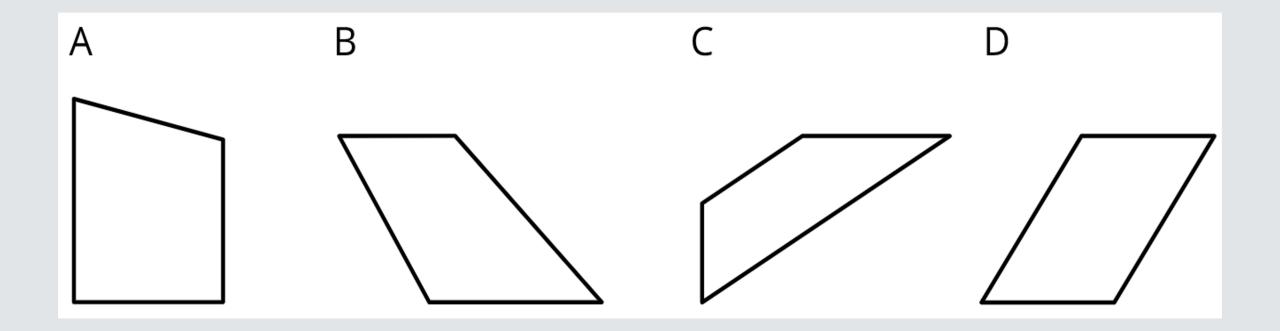
Is it Interesting?

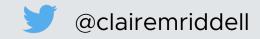
(the math, the context, the image, etc.)

Comparing Solution Strategies



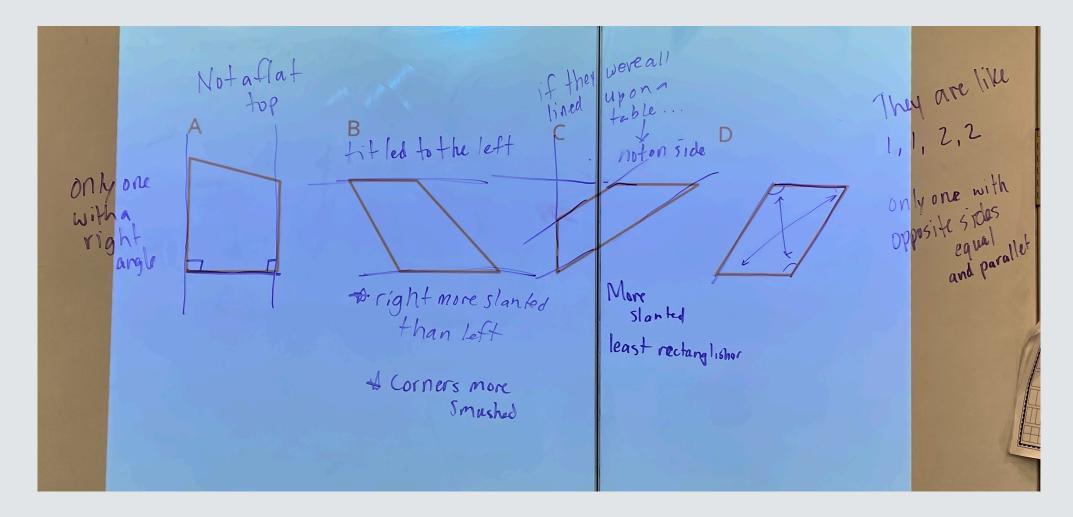
Which One Doesn't Belong?

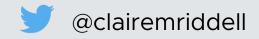


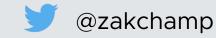




Which One Doesn't Belong?





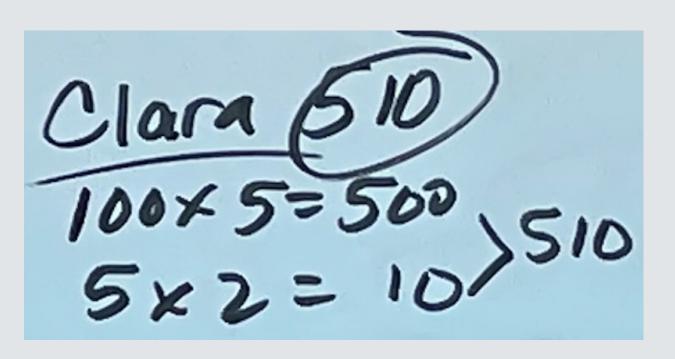


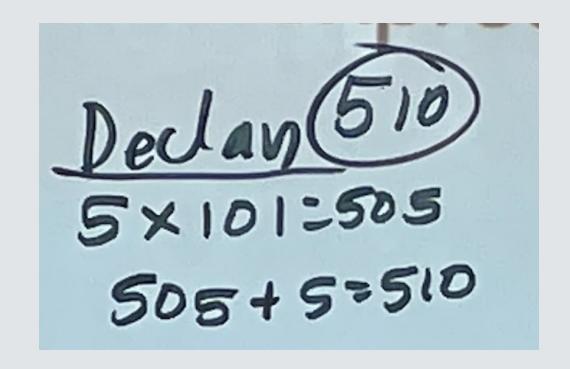
Comparing Two Strategies 5 x 102

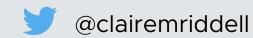


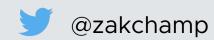


Comparing Two Strategies 5 x 102









Who Has Mathematical Authority?

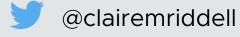
Who is responsible for making mathematical contributions?

Whose voice(s) are heard most often?

Who gets to share?

Who gets to respond?

Who has the last word?





What do you notice about the mathematical authority in this classroom?





What do you notice about the mathematical authority in this classroom?





What Structural Routines are in Place to Support Conversation?

Random and Sustained Partnerships

Sentence Stems

Wait Times 1 and 2

Quiet Think Time

Turn and Talk

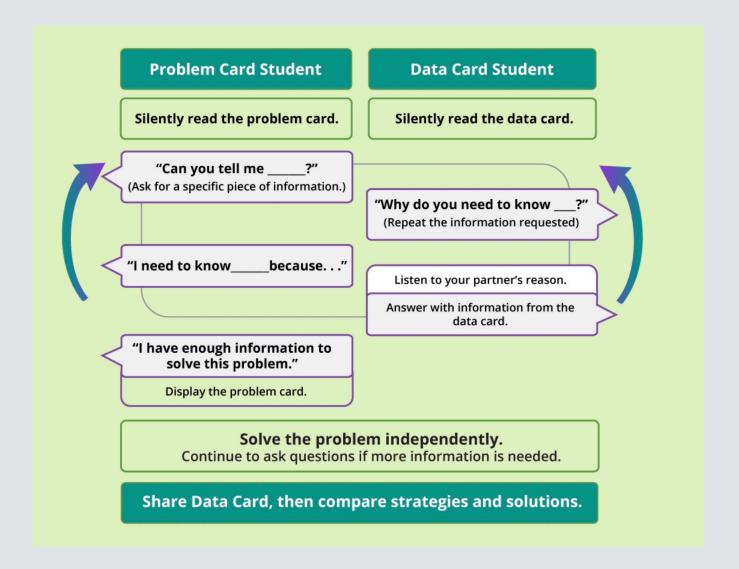
Gallery Walks

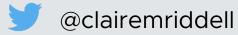
Problem Card/Data Card





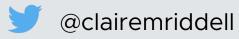
Problem Card/Data Card







What's resonating with you?





Thank you!



clairemarieriddell@gmail.com



@clairemriddell

zacharychampagne@gmail.com



y @zakchamp

www.zakchamp.com