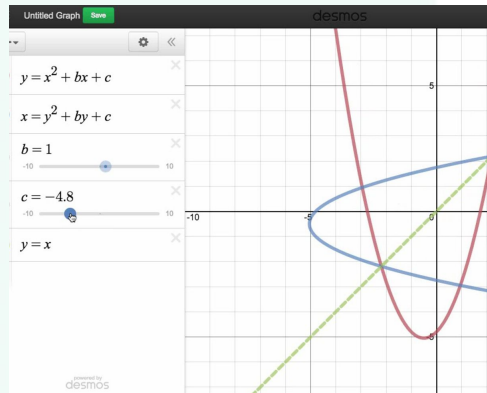
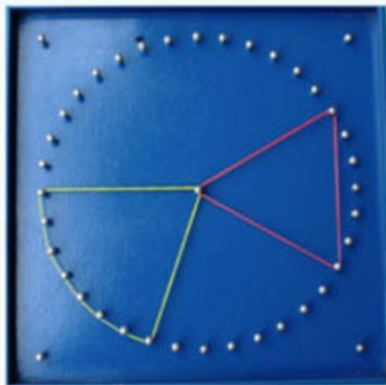


High Tech, Low Tech: Striking The Balance

Breedeem Pickford-Murray

The Bay School of San Francisco

(sporadically) @btwnthenumbers



Vote with your
feet

#WODB?

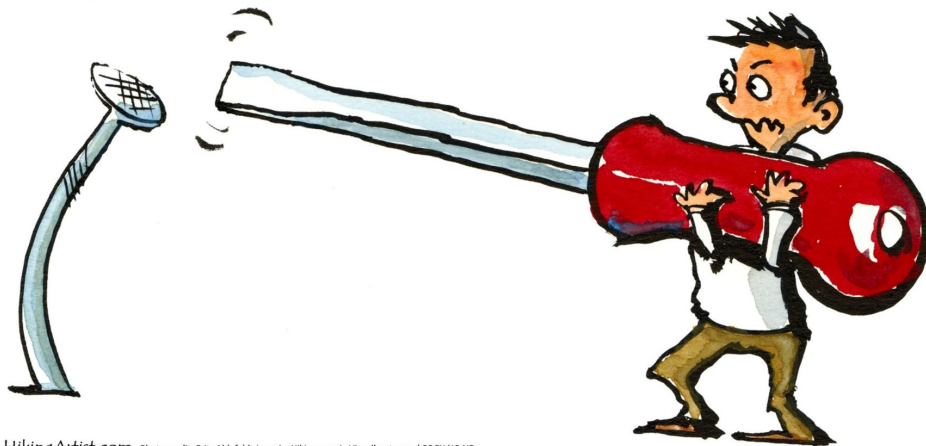
(which one
doesn't belong)



...and why?

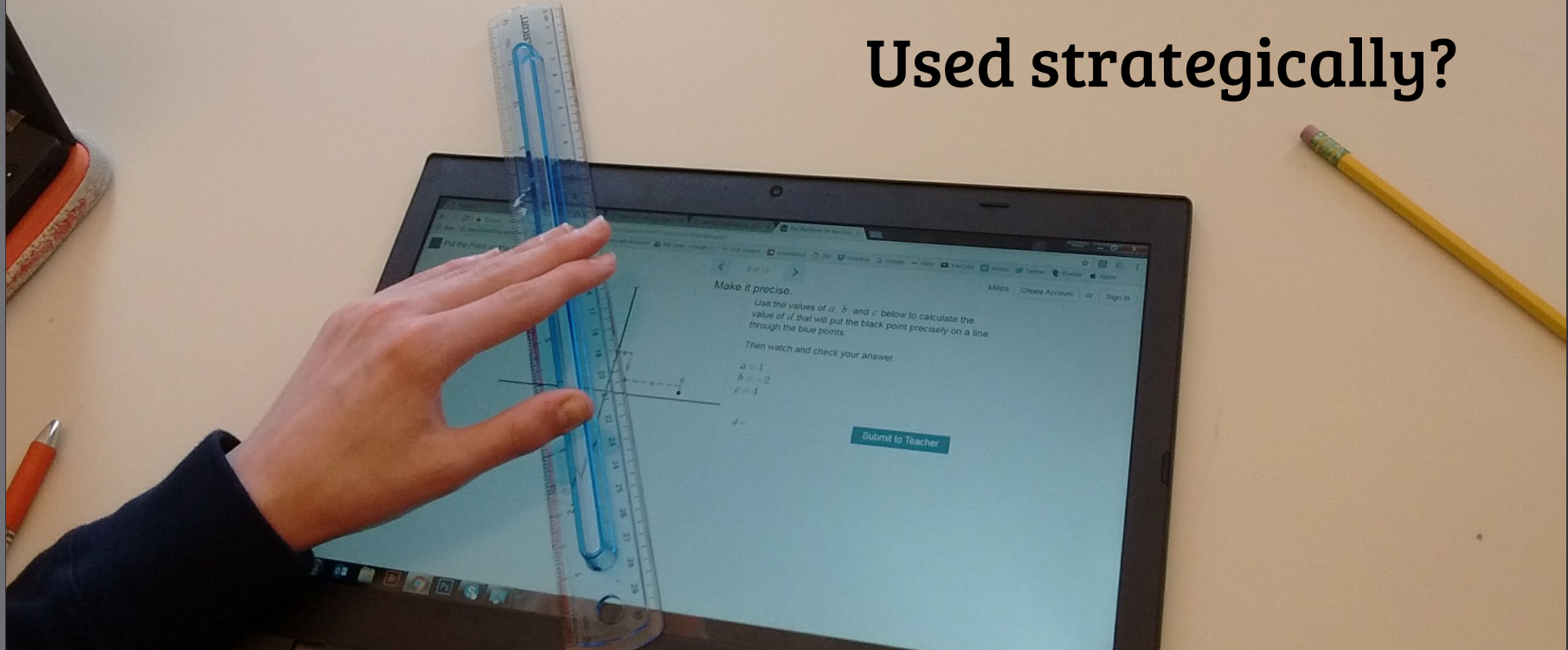
CCSS.MATH.PRACTICE.MP5

Use appropriate tools strategically.



Appropriate tool(s)?

Used strategically?



In your classroom...

- Who chooses which tools are appropriate for the task at hand? How is this decision made?
- Who determines the strategy that should (hmmm...) be used to implement each tool? How is this decision made?
- If the person making these decisions is not the student, does this benefit student learning? If so, how? If not, why not?

What is the purpose of technology?

- Does the tool work to achieve my goal?
- What is the added value of using this tool? What are the costs?
- Will students be actively engaged?
- Will the cognitive load be increased or reduced? Will it be shifted—to whom?
- Will this tool provide differentiation? Will it help me provide feedback? Will it help students collaborate?

Activity 1—Transformations Golf

- Low Tech Version:
Transparencies

- High Tech Version: Desmos
Transformations Bundle

Use the transparencies at your tables to transform triangle JLZ to the various numbered targets.

Record the transformations that you used in each “hole.”

Go to:

student.desmos.com

Class Code: **X69G9**

What are the advantages & challenges of both versions?

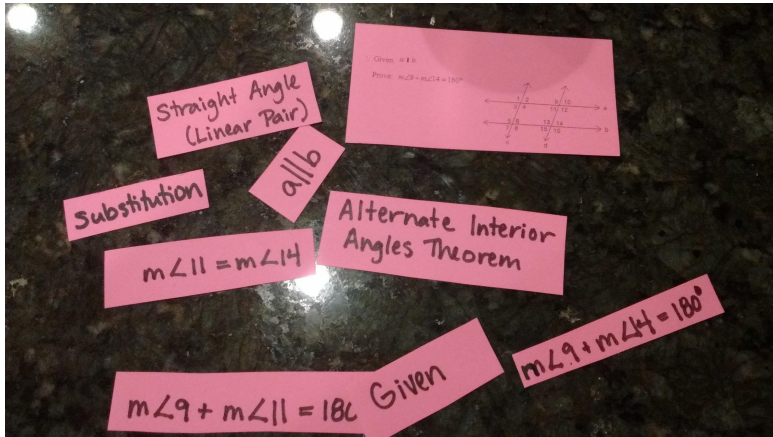
| | advantages | challenges |
|------------|------------|------------|
| Low Tech: | | |
| High Tech: | | |



Activity 2—Writing Proof Outlines (a.k.a. 2-column proofs)

- Low Tech Version: Puzzles

- High Tech Version: Prove It!



Go to:

www.proofpractice.wordpress.com

(note: this takes you to an external site, living within: feromax.com, created by Michael Ferarro, who created all of the problems)

Other Activities

Low Tech:

- Gallery Walk
- Dice rolls, coin flips
- Chart on whiteboard
-
-
-

High Tech:

- Google Docs
- Simulation (Fathom, TI, etc.)
- Shared spreadsheet
-
-
-

Thank You!

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