

Technology Tools to Enhance Instruction of the CCSS

presented by:

Betty Napoli

Galloway Township Public Schools

October 24, 2015

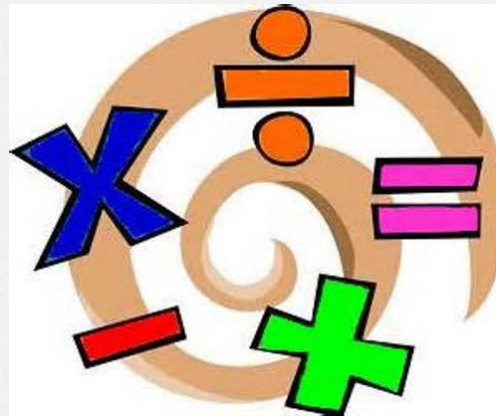
What is your position?

- A. Elementary Teacher
- B. Middle School Teacher
- C. High School Teacher
- D. Instructional coach
- E. Administrator/other

What technology do you available?

- A. Teacher workstation connected to a display
- B. Access to computer lab
- C. Access to ipads
- D. Access to laptop/chromebook cart
- E. 1:1

Skill Building



Skill Building

- o Arcademics
- o Math Mayhem
- o Games with Goals
- o Krypto
- o Factor Game
- o Fraction Game

Arcademics

Game Results

PRINT TROPHY



1st:
54.13 sec



Player439



2nd:
55.96 sec



Computer 4



3rd:
58.19 sec



Bryce2213

4th:
59.46 sec



Babygirl121

Accuracy

93%

Rate

29/min

Missed Questions

$5 \times 2 = 10$

$4 \times 7 = 28$

CONTINUE

END GAME

Krypto

PRIMARY KRYPTO

deal

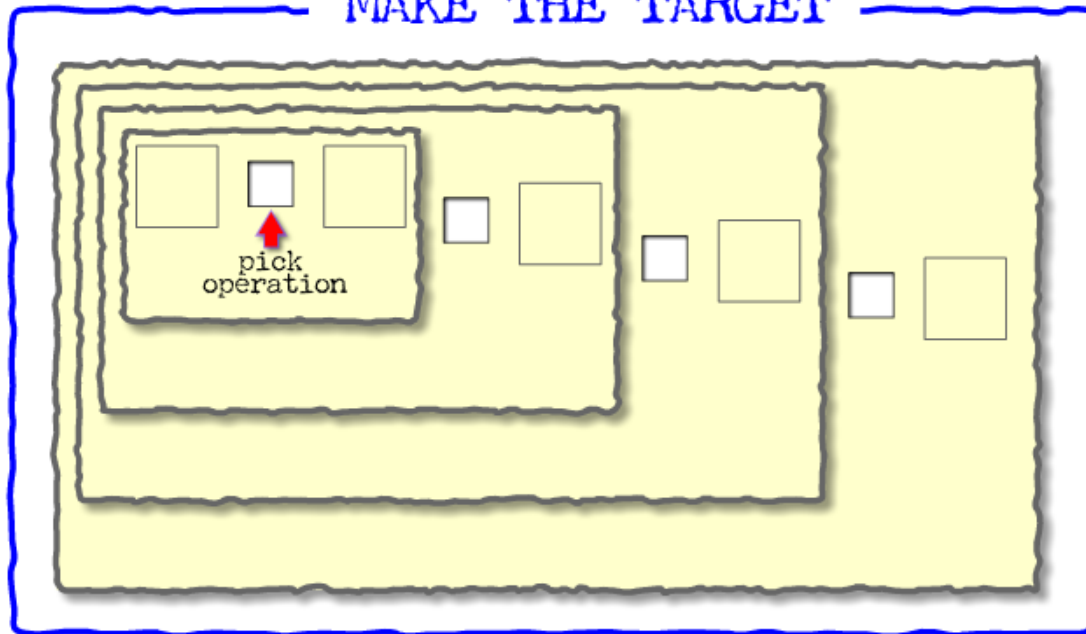
hint

solve

5 6 1 4 7

target: 7

MAKE THE TARGET



Conceptual Understanding



Conceptual Understanding

- o [Illuminations](#)
- o [Gizmos](#)
- o [Sheppard Software](#)
- o [Math Interactives 3-6](#)
- o [Math Interactives 7-8](#)

Illuminations

Players:



New Game



Player 1



Score: 88

Last Move: 20

Factors Used: 1, 2, 4, 8

Computer

Score: 87

Last Move: 16

Factors Used:

Rows:



Columns:



This game has ended. To play again, press the New Game Button.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

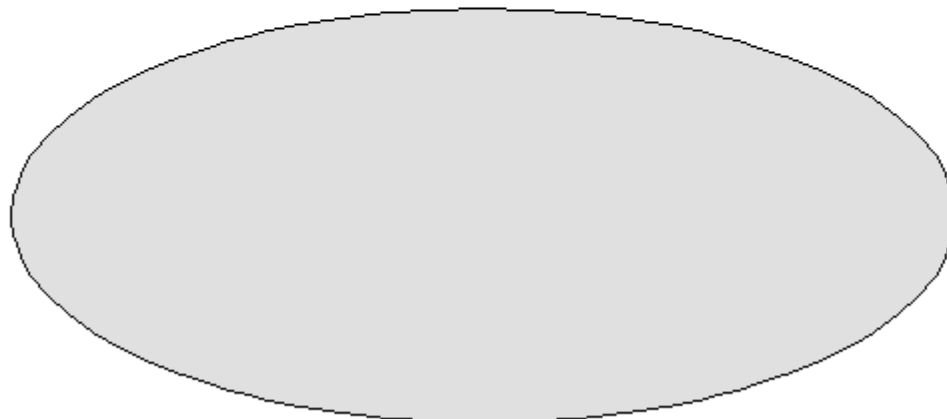
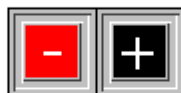
OK

NLVM Manipulatives

Click and drag chips to the circle to represent the problem. Then click the Continue button.

$$4 + (-3)$$

Continue



Problems: Computer User Free Play

New Problem

Credits | Contact | © 1999-2015 Utah State University. All Rights Reserved.

English | Español | Français | 中文

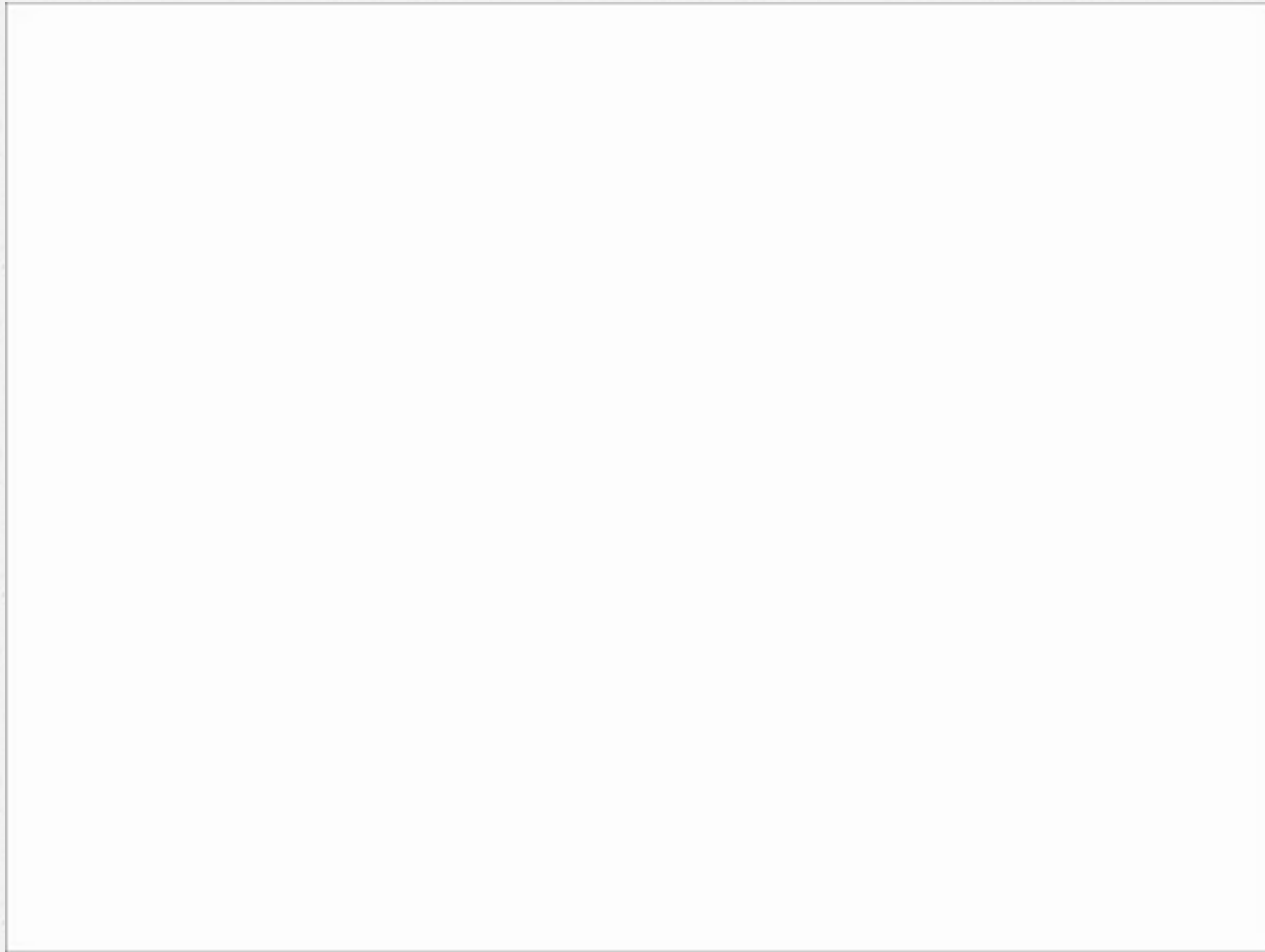
Desmos

The image shows a screenshot of the Desmos online graphing calculator interface. The browser address bar displays the URL <https://www.desmos.com/calculator>. The page title is "Untitled Graph". The interface includes a navigation menu on the left, a central graphing area with a coordinate plane, and a right-hand sidebar with zoom controls. The coordinate plane has x and y axes ranging from -10 to 10. The Desmos logo is visible in the top right of the interface, along with "Create Account" and "Sign In" buttons. The browser's address bar shows several open tabs and bookmarks.

Lesson Creation

- o Learn Zillion
- o Better Lesson.com
- o ETA Hands On Standards
- o Desmos –
 - o Tile Pile
 - o Central Park
 - o Polygraph Lines/Quadrilaterals
- o 3 Act Lessons

Learn Zillion



Better Lesson.com

6 Making Posters ⌚ 10 min

Students work with their partner on the Making Poster questions. I walk around and monitor student progress. I am looking to see that students are labeling their rates and correctly calculating unit rates. My goal is that students complete problems 1-4. Students are engaging in **MP:**... [READ MORE](#)

Resources (3)



EXPAND CONTENT

7 Closure and Ticket to Go ⌚ 7 min

I ask students who they think the fastest and slowest students are at creating posters. The important part is that students are able to express *why* they think the way they do. I push students to use rates and units to defend their answer. I declare that I think Kai is the fastest,... [READ MORE](#)

Resources (3)



ETA Hands on Standards

Challenge! Explain why the formula for the area of a triangle includes the fraction $\frac{1}{2}$. Draw a picture.

Desmos Activities

Central Park

ESTIMATES



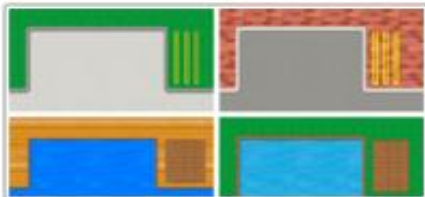
Suppose you wanted to figure out the exact space between the dividers. What measurements would you need?

NUMBERS

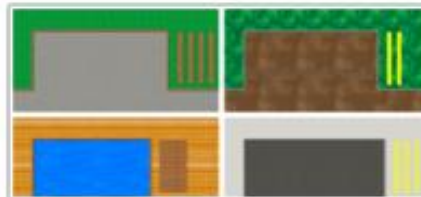


Help your friends! Write instructions explaining how to calculate the right width of the parking space for any situation.

EQUATIONS



There's something different going on here. How is this parking lot different from the ones we've already seen?



Eric says that if we turn this parking lot into eight spaces, each space is going to be exactly half as big. Do you agree?

WRAP UP

We don't really like the title for this lesson. We'd like a title that summarizes everything you learned today – the math, the world, and all. What should we title

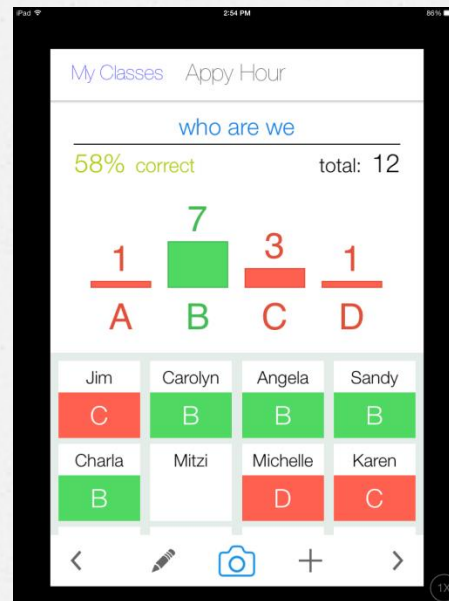
3 Act Lessons

How many Post It Notes will it take to cover the filing cabinet?

Sequel

1. If you had 1,000,000 stickies, what kind of file cabinet could they cover?
2. If the WIDTH of the cabinet was doubled, how many more post-its would be needed?
3. If the HEIGHT of the cabinet was doubled, how many more post-its would be needed?
4. If the DEPTH of the cabinet was doubled, how many more post-its would be needed?
5. How long would it take to cover if it took 40 seconds for every 5 stickies?
6. Would it be faster to write the numbers & stick? OR stick & then write the numbers?
7. What formula (process) could you come up with to calculate the surface area of a [rectangular] prism?

Formative Assessment



Formative Assessment

- o Kahoot
- o Socrative
- o Google Forms & Flubaroo
- o Plickers
- o Pear Deck

Video Overview of Assessment Tools

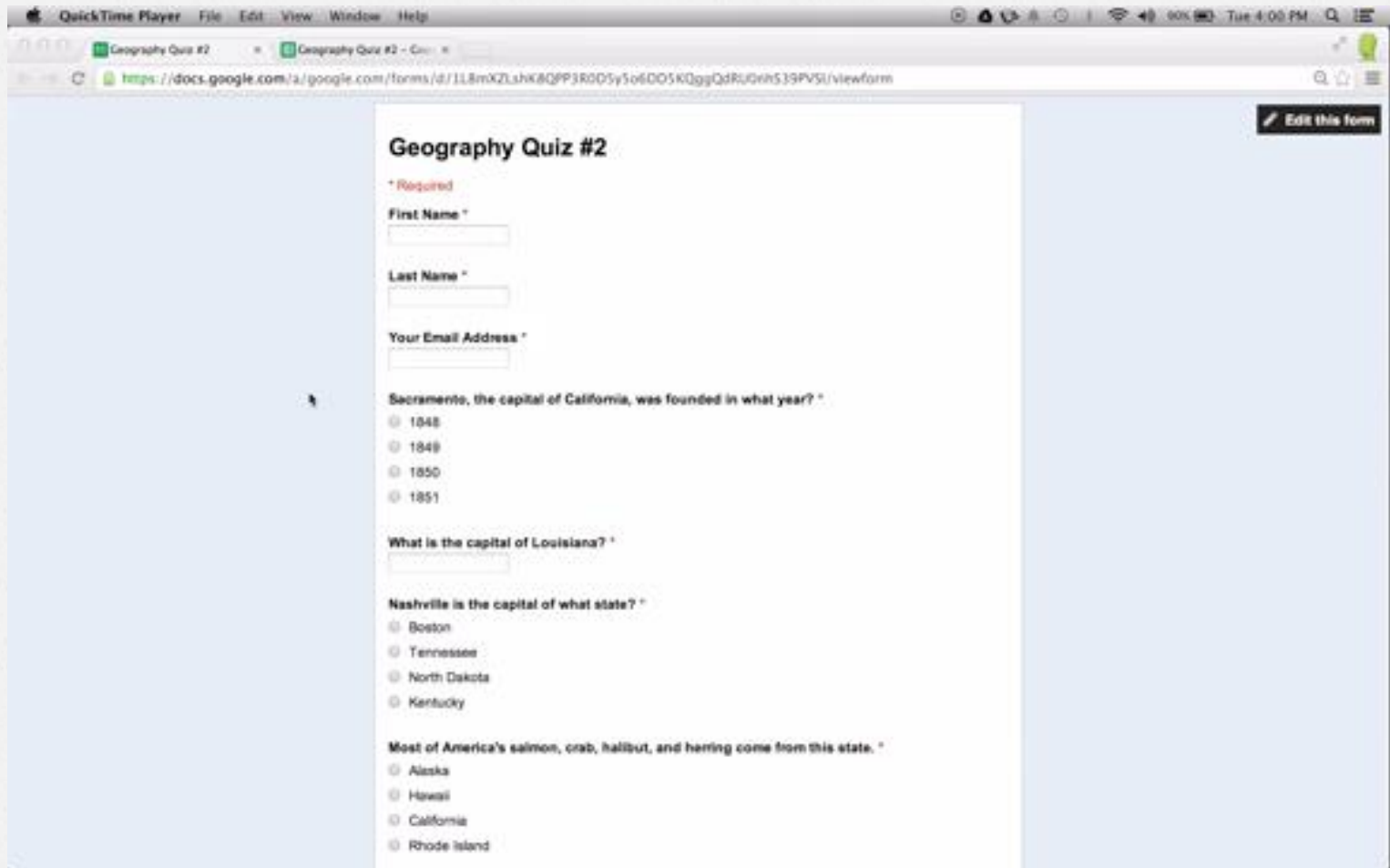
o <https://www.youtube.com/watch?v=dpG-Dsi4zcQ>

Kahoot



Socratic

Google Forms & Flubaroo



The image shows a screenshot of a web browser displaying a Google Form titled "Geography Quiz #2". The browser's address bar shows the URL: <https://docs.google.com/a/google.com/forms/d/1L8mXZLshK8QP3R0D5y5o6D05KQggQdRU0vHS39PV5U/viewform>. The form includes a title "Geography Quiz #2" and a red asterisk indicating required fields. Below the title are three text input fields for "First Name", "Last Name", and "Your Email Address". The form contains three multiple-choice questions:

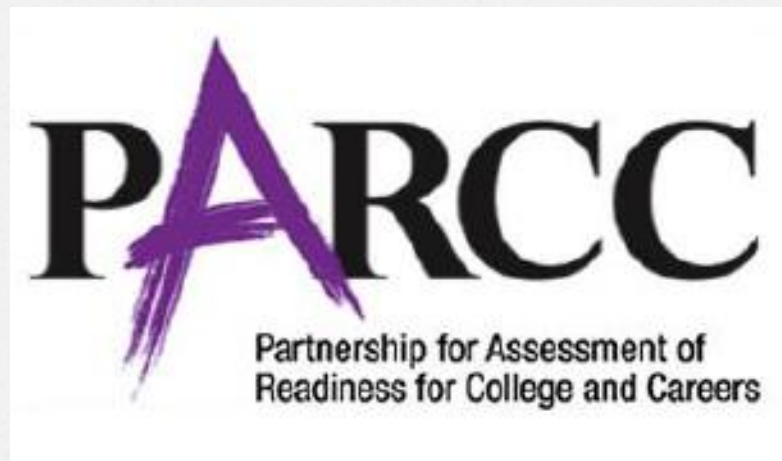
- Sacramento, the capital of California, was founded in what year? ***
 - 1048
 - 1848
 - 1850
 - 1851
- What is the capital of Louisiana? ***
 -
- Nashville is the capital of what state? ***
 - Boston
 - Tennessee
 - North Dakota
 - Kentucky
- Most of America's salmon, crab, halibut, and herring come from this state. ***
 - Alaska
 - Hawaii
 - California
 - Rhode Island

An "Edit this form" button is visible in the top right corner of the form area.

Plickers



PARCC-like Questions



Pear Deck

Edcite

Place the expression in the table to tell whether each is equivalent to $4(y+4)$ or $4y+4$.

If the expression is equivalent to neither then we place them in Neither.

$(4 \times y) + (4 \times 4)$

$4y + 12$

$4y + 16$

$2(2y + 6 - 4)$

$(4 + y) + (4 + 4)$

$2y + 4 + 2y$

$2(2y + 2)$

Equivalent to $4(y+4)$

Equivalent to $4y+4$

Neither

Exit Ticket

- o Go back to B.Socrative.Com
- o Room 90096
- o Complete the exit ticket

Thanks for your time and attention
my contact info:

o Betty Napoli

o Email: napolib@gtps.k12.nj.us

o Twitter: @napolib

o Web Site: <http://gtpsmath.weebly.com/>

