CCSS - and Math - AND Web 2.0



Summaries are Helpful

Grade 3 Overview

Operations and Algebraic Thinking

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Number and Operations in Base Ten

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations—Fractions

 Develop understanding of fractions as numbers.

Measurement and Data

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

Geometry

· Reason with shapes and their attributes.

Mathematical Practices

- Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- 5. Use appropriate tools strategically.
- Attend to precision.
- 7. Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

http://commoncoretools.me/wp-content/uploads2011/02/ccssi_math_standards_hyperlinked_1-0.pd /wp-content/uploads,

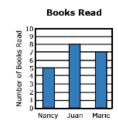
FlipBooks of Content/Ideas

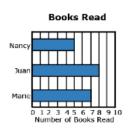
Students should draw both picture and bar graphs representing data that can be sorted up to four categories using single unit scales (e.g., scales should count by ones). The data should be used to solve put together, take-apart, and compare problems as listed in Table 1, page 49.

In second grade, picture graphs (pictographs) include symbols that represent single units. Pictographs should include a title, categories, category label, key, and data.

Nui	mber of Books Read
Nancy	** ***
Juan	***

Second graders should draw both horizontal and vertical bar graphs. Bar graphs include a title, scale, scale label, categories, category label, and data.





Twitter (yes, Twitter)

http://twitter.com

Follow Common Core on Twitter at these hashtags: #ccss, #ccchat, #commoncore

Also Tweetchats like:

#mathchat Mondays at 3:30 PM ET

(more at: http://goo.gl/eYx8g3)



Not just DO the Math,

Use the Math

LovelyLearning.com

Problems to Solve

Problem of the Month

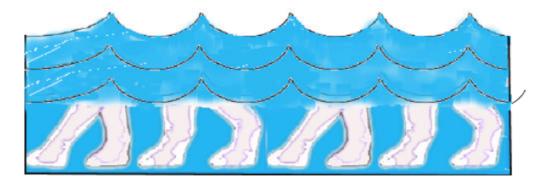


Digging Dinosaurs



Level A:

You are swimming under water in a lake and you see dinosaur feet in the water. You don't want to go to the surface in case they are not friendly dinosaurs. Below is a picture of what you see.



How many dinosaurs are standing in the lake? Explain how you know. Use words and mathematical language to explain your solution.

<u>LovelyLearning.con</u>

Estimation

How many almonds in the cup?



Answer

Other estimates

Ma	ke	an	est	ima	te.

* Required

Estimate *

Name *

How confident are you? *

1 2 3 4 5

Barely O O Extremely

Share your reasoning. *

What context clues did you use?

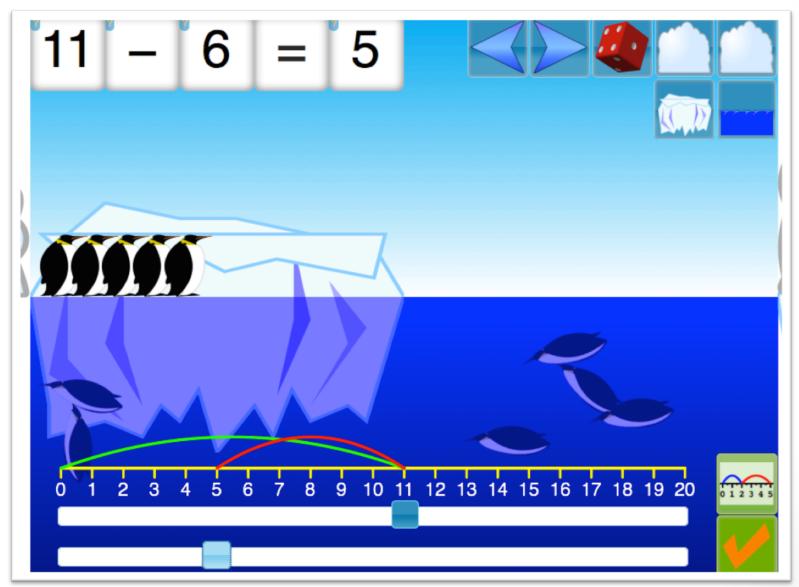
Submit

Never submit passwords through Google Forms.

Powered by Google Docs

v.estimation180.com

Interactives

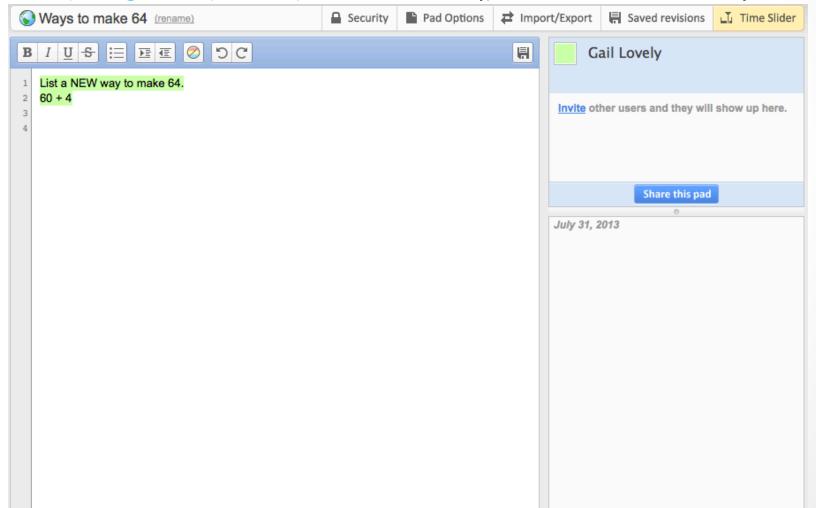


http://www.visnos.com

Titanpad

http://titanpad.com

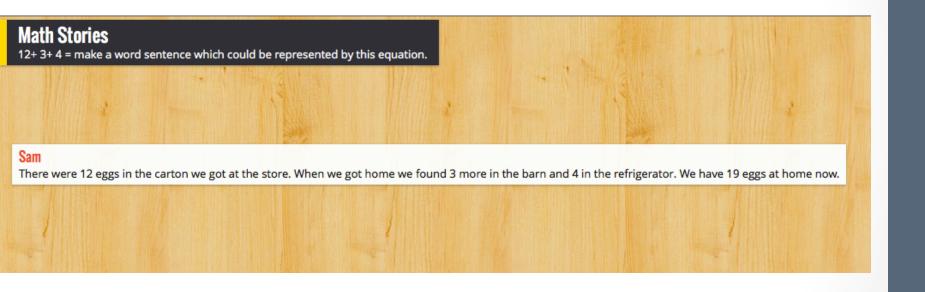
http://glovely.titanpad.com/7 (password: letmein)



Padlet -

http://padlet.com

http://padlet.com/wall/8zzsc8agds



LovelyLearning.com

http://todaysmeet.com

Today's Meet

TodaysMeet

Listen

my mom says if I learn the times tables I will be faster than adding.

less than a minute ago by Freddy

I wonder if I can add instead of multiply

2 minutes ago by Gail



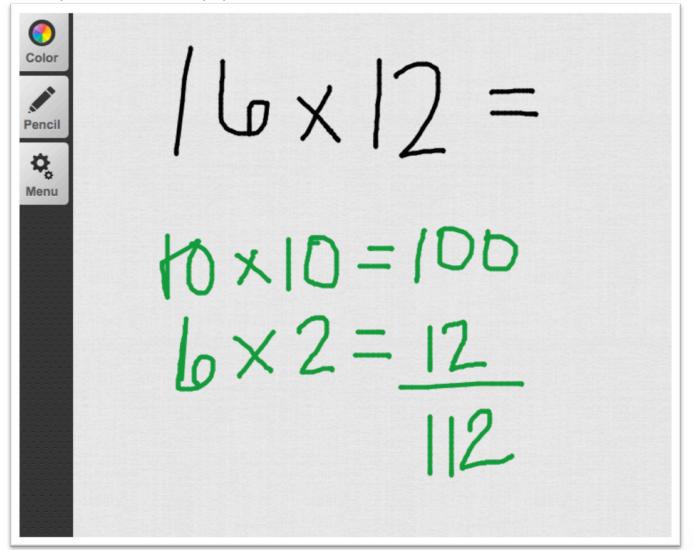
http://today.io/RQ2k

transcript I projector I 🚳

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AWW (A Web Whiteboard)

http://awwapp.com/



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Create-a-Graph



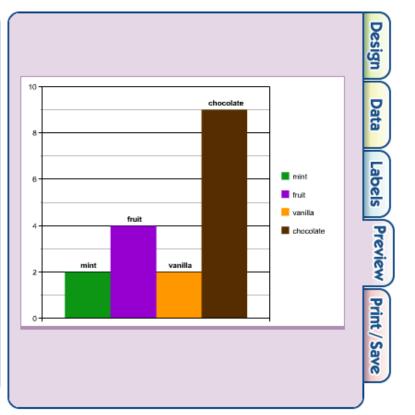


Heb Graph Preview: shows you the current state of your graph. To make changes, click the Design, Labels, and Data tabs. To print or download this graph, click the Print/Save tab. Examples

It is recomended that you have Macromedia Flash Player installed

Get macromedia /3 FLASH PLAYER

for the best quality preview with the fastest loading time.

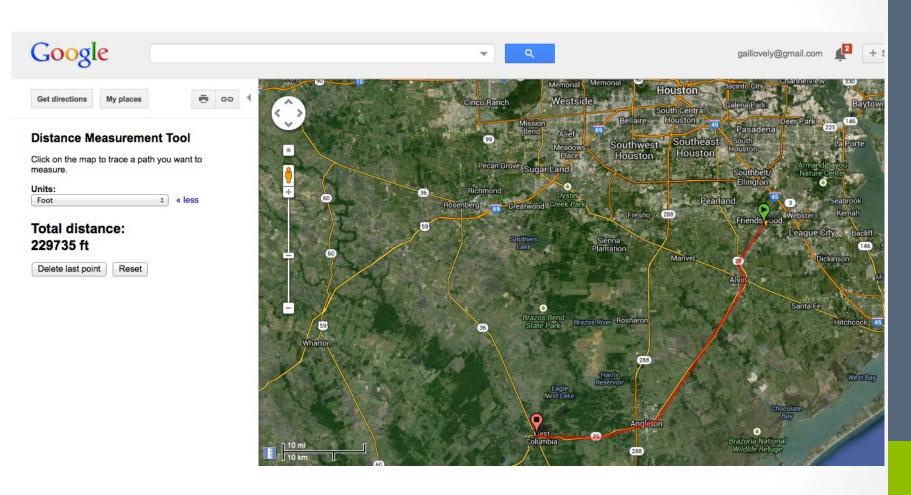


Problems to Mimic

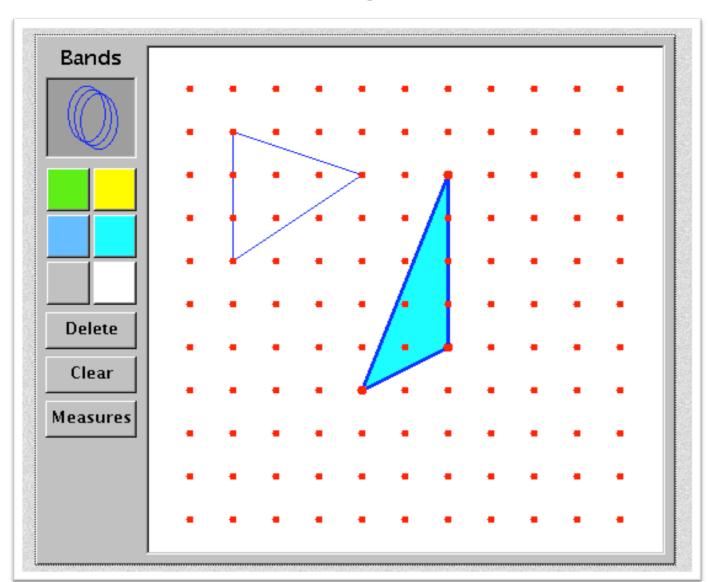
Description 1		
The design looks like a bird with		
a hexagon body;		
a square for the head;		
 triangles for the beak and tail; and 		
• triangles for the feet.		
REVEAL DESIGN		

'geometry/session1,

Google Maps

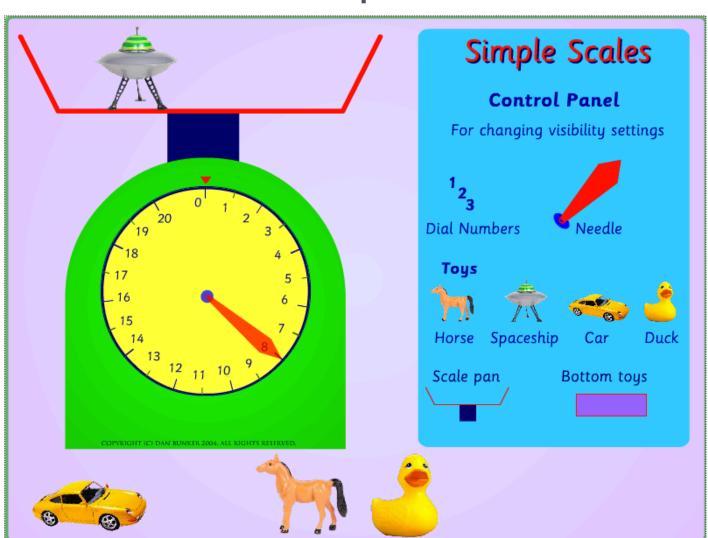


Virtual Manipulatives



http://nlvm.usu.edu/

Virtual Manipulatives



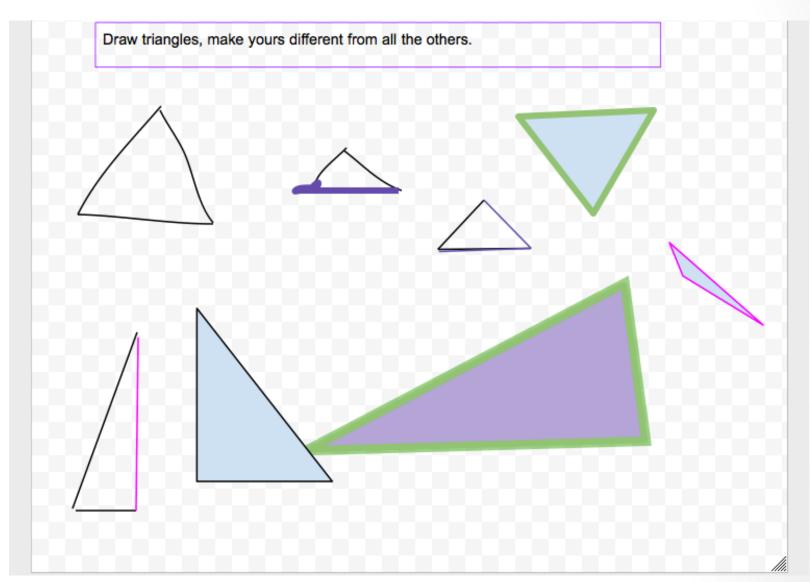
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Google Forms

Cake Flavors
* Required
What is your favorite flavor for your birthday cake? *
O Chocolate
○ Yellow
○ White
O Something else
○ I don't like cake
What month is your birthday? *
○ January
○ February
○ March
O April
O May
O June
July
O August O September
October
November
0.121311123

https://docs.google.com/forms/ G8bsl6LvFpbLZpzgQ/viewform lyjZHT07kXPNpOgC15v9rUqhUw(

Google Docs (Drawings)



Wikis



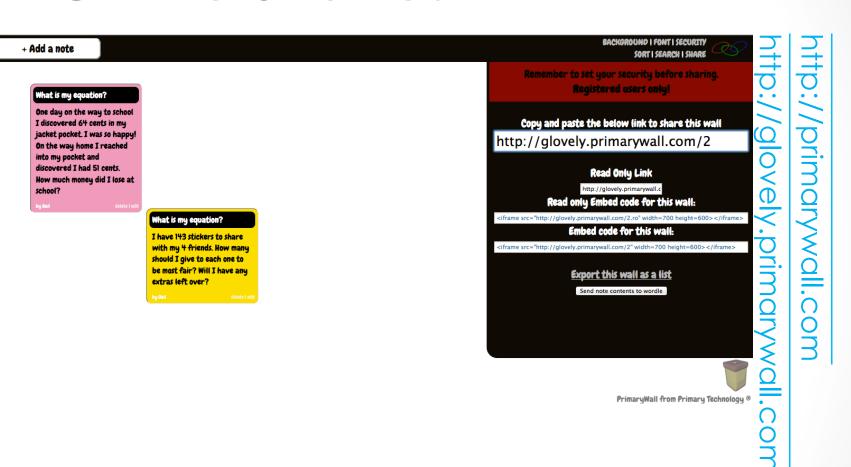
makingnumbers.wikispaces.com, wikispaces.c

Voicethread



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Online Stickies



What I learned, what I wonder about Ways to solve a problem

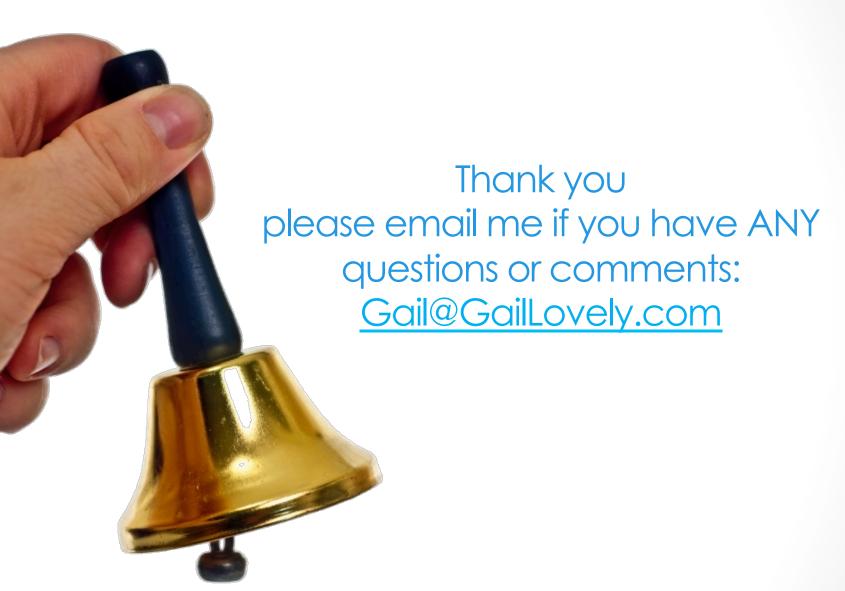
In general...



Look for tools to experiment with math concepts and ideas

Look for tools for sharing and justifying ideas

Look for tools to create "conversations"



Resources also online at:

http://www.lovelylearning.com/ccss-math-and-web-20.php