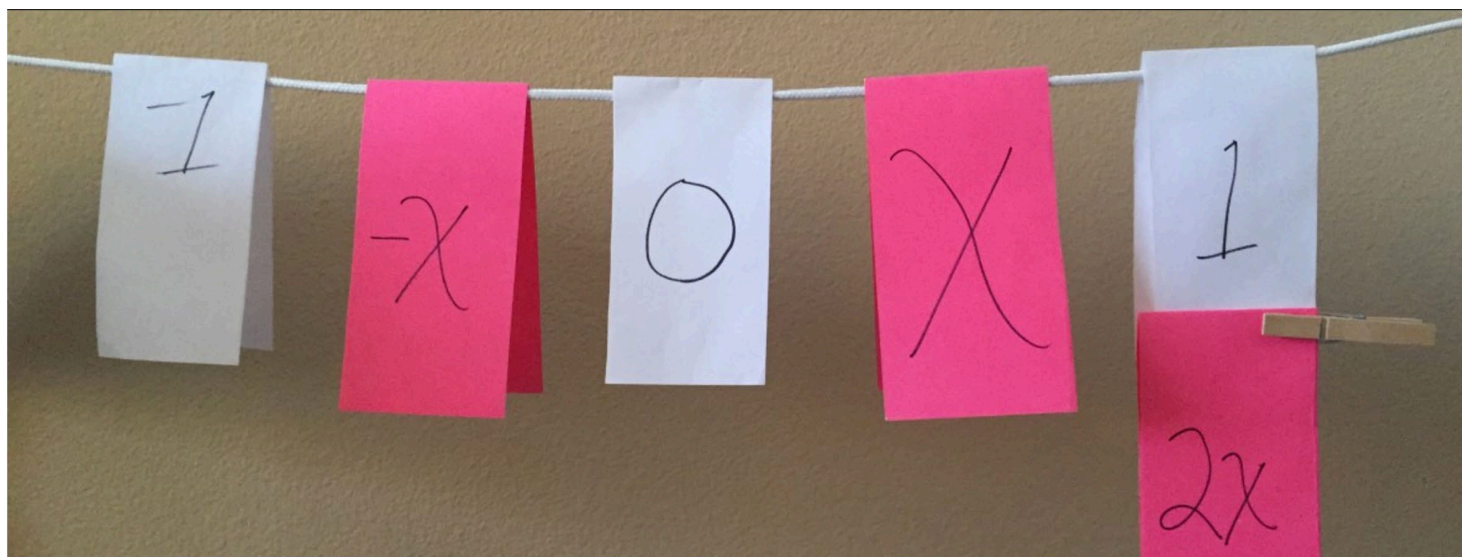


Clothesline Math

Statistics

The Master Number Sense Maker!



Chris Shore
The Math Projects Journal
Murrieta Valley USD, CA

www.mathprojects.com

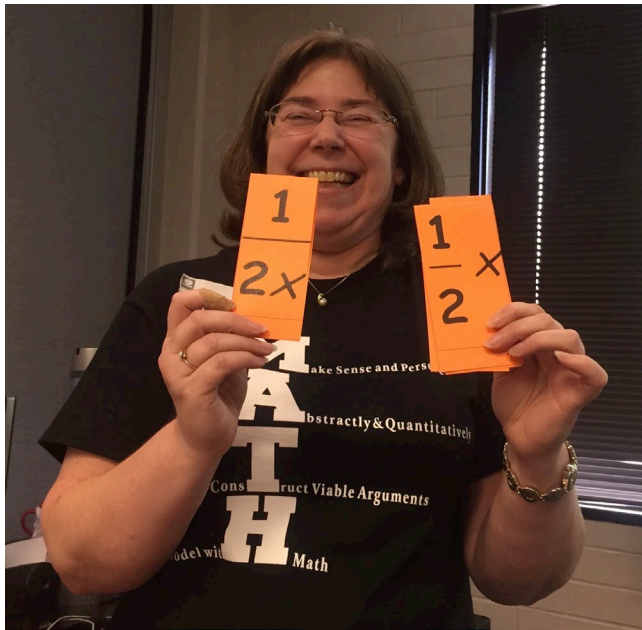


@MathProjects
#clotheslinemath
#CMCMath



Clothesline Math

A Brief History



Molly Daley

@mdaley15

I've just been Clotheslined or maybe kicked in the head.

[@MathProjects](#) [#55thNWMC](#)



Frédéric Ouellet

@fredouellet0

Replying to [@jocedage](#) [@MathProjects](#) a...

Since Monday, it's

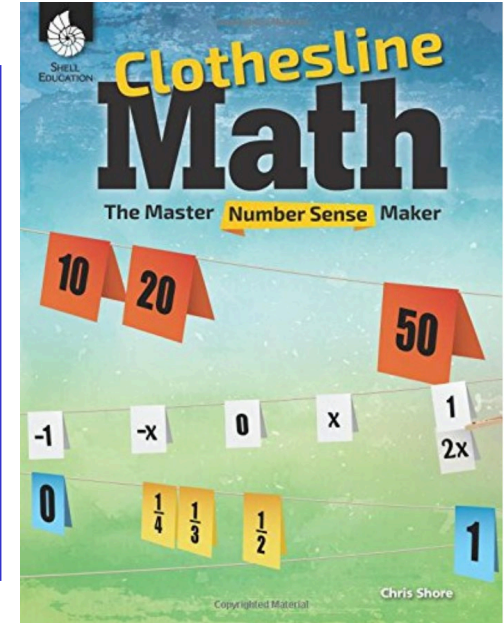
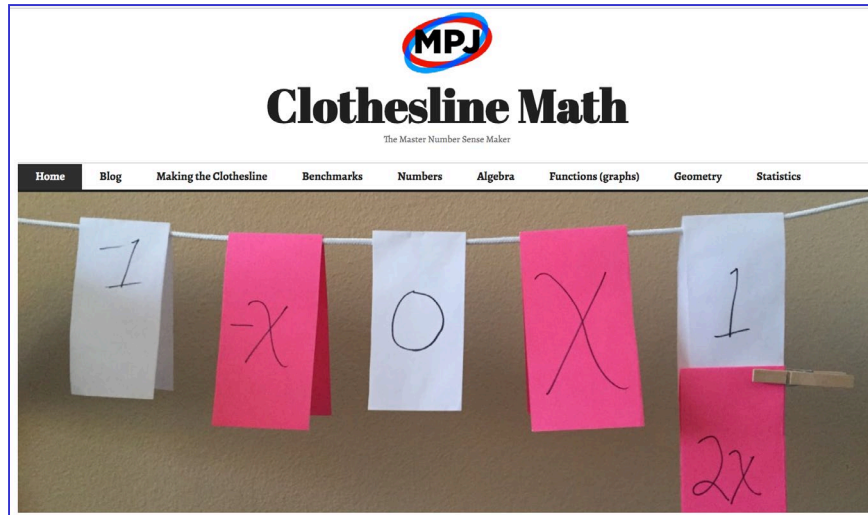
[#clotheslinemath](#)

everywhere on Facebook
here in Quebec!



Clothesline Math

My Contribution



#clotheslinemath



The Need for Number Sense



Build Number Sense...



...intentionally!



Clothesline Algebra

Warm-Up

$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$
---------------	---------------	---------------



Clothesline Statistics

The Big Four

Mean

Median

Mode

Range

9, 9, 9, 10, 13, 13, 14



Clothesline Statistics

Mean Absolute Deviation

What does the word *deviate* mean?

depart from the norm

What does the phrase *absolute value* mean?

distance from the zero (either side)

What does *absolute deviation* mean, then?

distance from the norm (either side)

So what does *mean absolute deviation* mean?

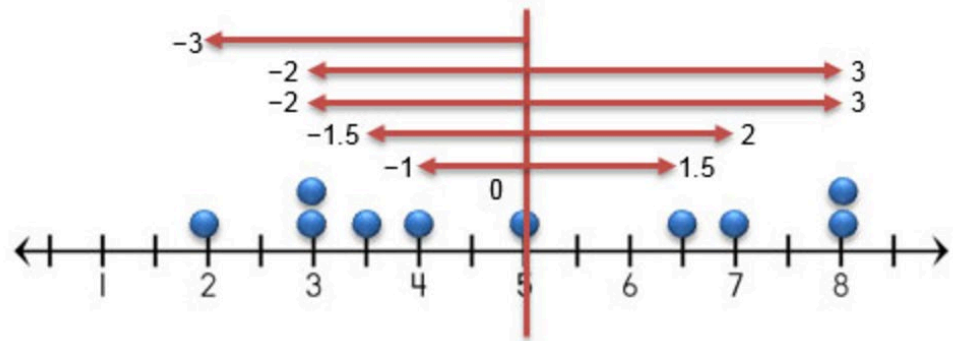
average of all the absolute deviations



Clothesline Statistics

M.A.D.

$$\frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})$$



$$|-3| + |-2| + |-2| + |-1.5| + |-1| + |0| + |1.5| + |2| + |3| + |3| = 19$$

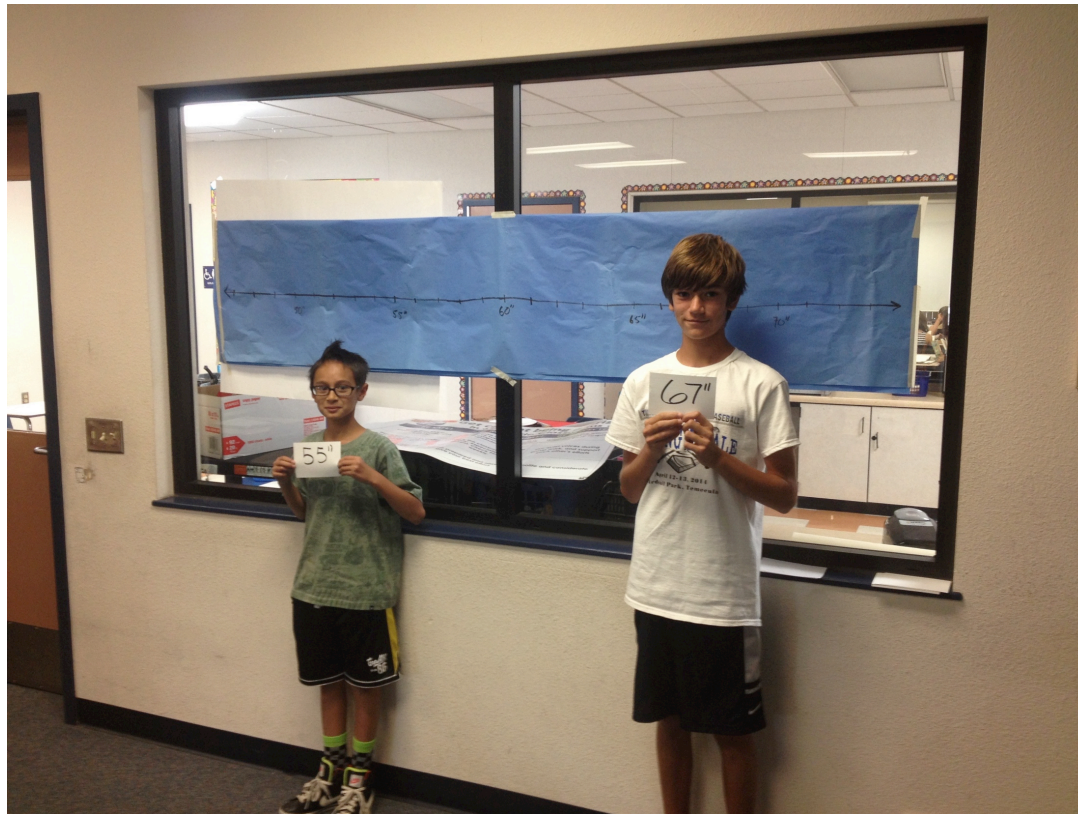
$$19 \div 10 = 1.9$$

9, 9, 9, 10, 13, 13, 14



Clothesline Statistics

Affect on the Average



Clothesline Statistics

Box-n-Whisker & 5-Number Summary



Min

Q_1

Med

Q_3

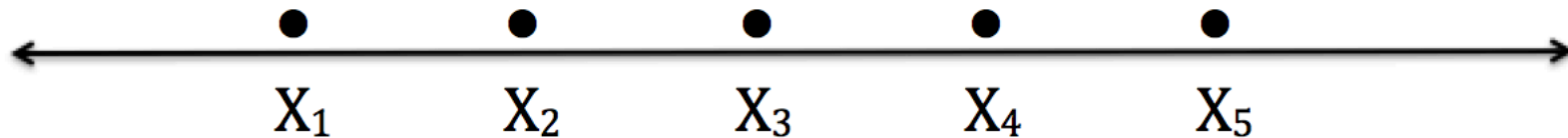
Max

5, 7, 11, 12, 22, 22, 25, 25



Clothesline Statistics

Measure of Center and Spread



~~Smaller~~ **Larger** *Range*

~~Smaller~~ **Smaller** *Standard Deviation*

~~Smaller~~ **Smaller** *Average*



www.clotheslinemath.com



Clothesline Math

The Master Number Sense Maker

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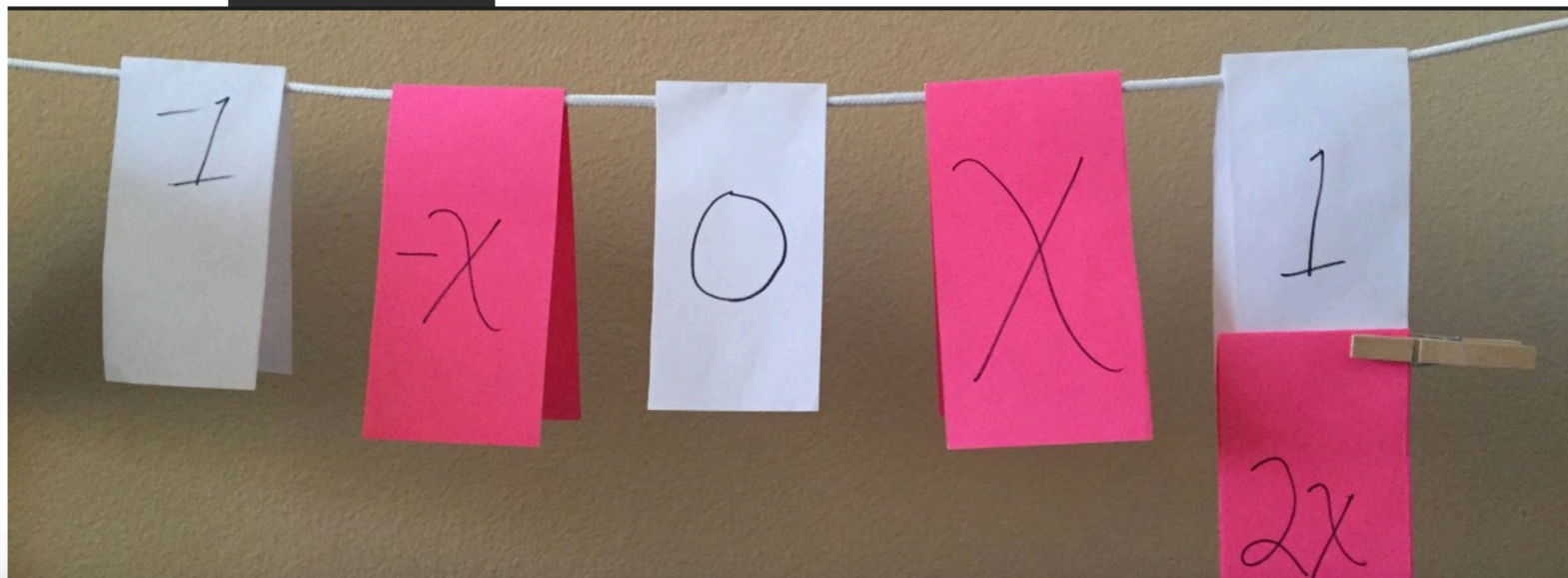
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[Algebra](#)

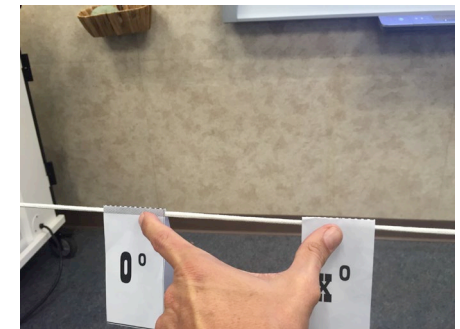
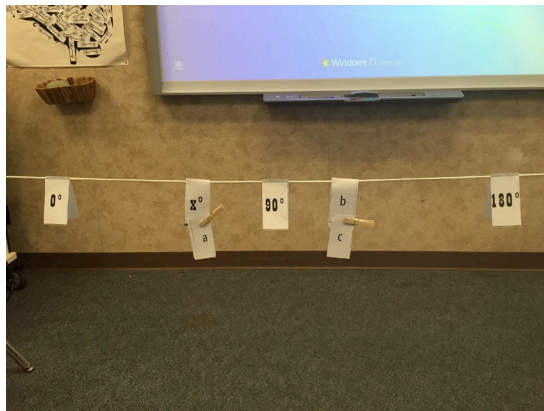
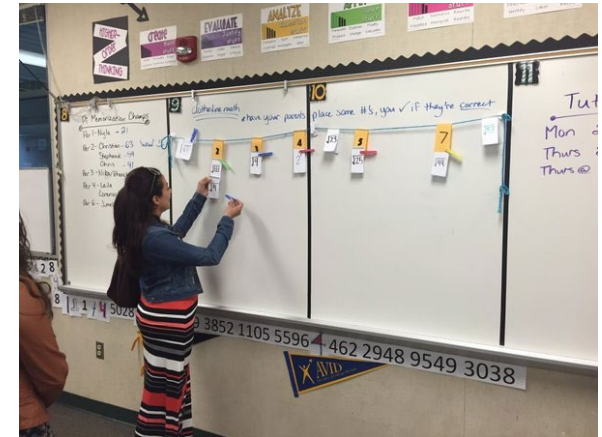
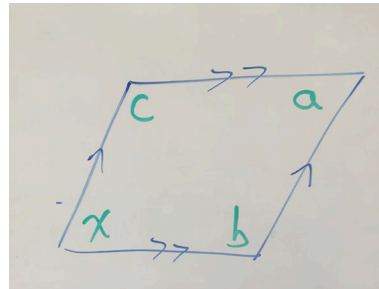
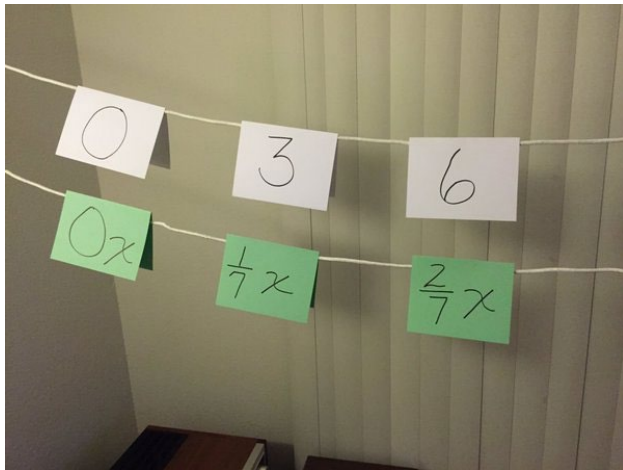
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[Geometry](#)

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Enthusiasm for Clothesline Math

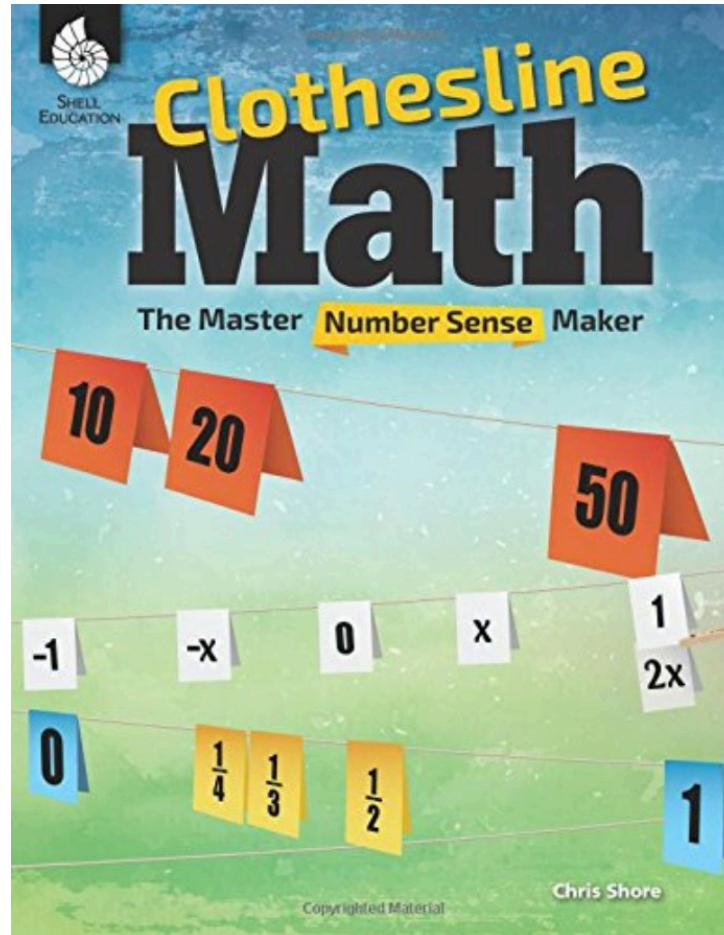


Enthusiasm for Clothesline Math



Clothesline Math

Give Away



Clothesline Math

Call to Action

Fail Grandly



No Real Risk



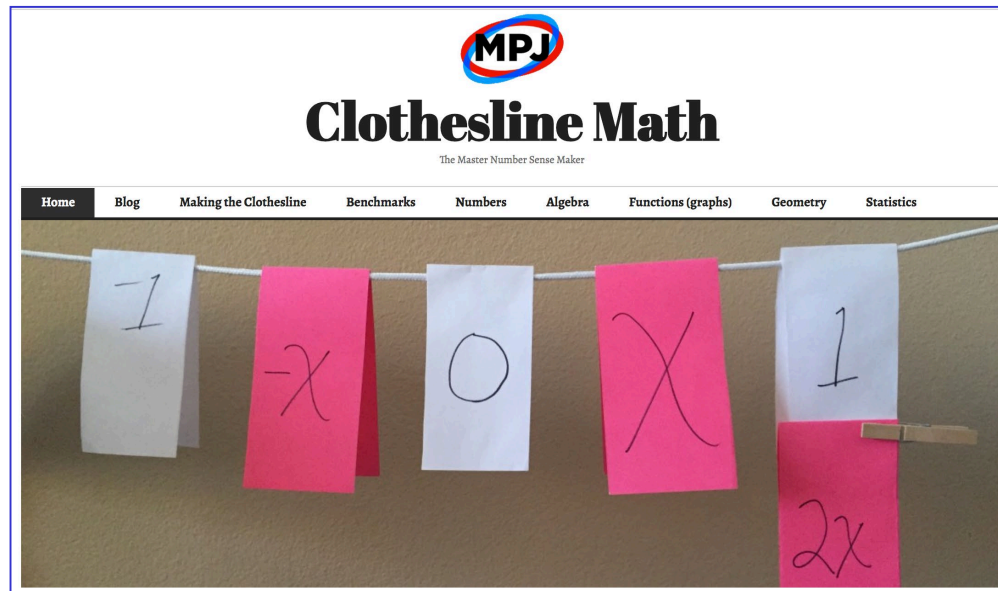
2-Week Rule

10%



Use Clothesline Math...

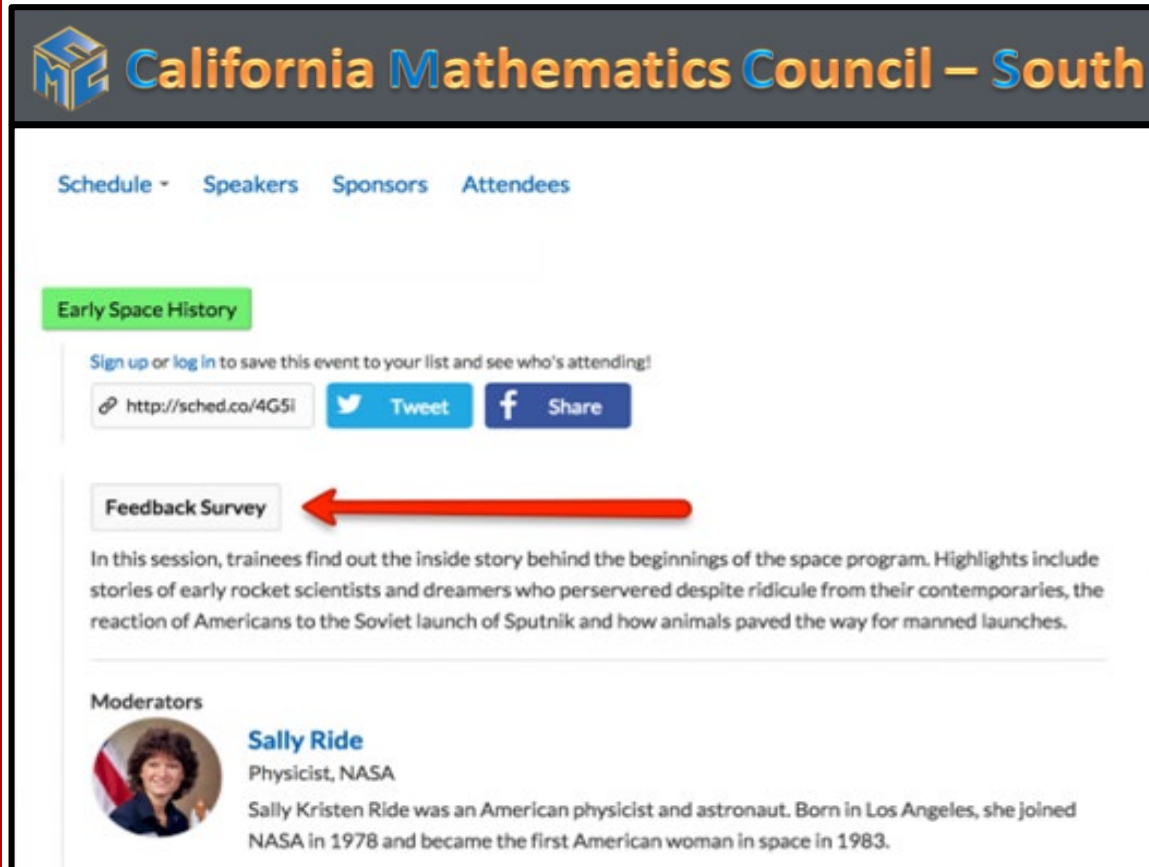
...with the faith that they can learn it,
and that we can teach it to them,



...so you can change this world,
one math lesson at a time.



Speaker Evaluation






California Mathematics Council – South

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Early Space History


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Feedback Survey 

In this session, trainees find out the inside story behind the beginnings of the space program. Highlights include stories of early rocket scientists and dreamers who persevered despite ridicule from their contemporaries, the reaction of Americans to the Soviet launch of Sputnik and how animals paved the way for manned launches.

Moderators

 **Sally Ride**
Physicist, NASA

Sally Kristen Ride was an American physicist and astronaut. Born in Los Angeles, she joined NASA in 1978 and became the first American woman in space in 1983.

In the app
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