

Hanging Math on a Clothesline!

NCTM 2018

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Welcome

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NCTM 2017

- NCTM 2017 San Antonio –
Chis Shore @MathProjects
The Math Projects Journal

- Andrew Stadel – Estimation 180
- Jon Orr – Mr. Orr is a Geek.com

What is the purpose of the clothesline?

- Builds number sense
- Reinforces inverse operations
- Transitions from conceptual understanding to abstract
- Strengthens students' understanding of algebraic expressions and equations
- Reasons through class discourse which offers opportunity for students to clear up misconceptions before committing the answer to paper.

What will we be looking at today?

- Fractions
- Radicals
- Expressions
- Equations
- Systems of Equations

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$\frac{1}{4}$$

Fractions

- **GREEN** set
- **WHITE** sheets
- Place in ascending order
- Space appropriately

Chris Shore

<https://clotheslinemath.com/numbers/>

Radicals

- **ORANGE** Set
- Place in ascending order
- Space appropriately

Chris Shore

<https://clotheslinemath.com/numbers/>

$$\sqrt{2}$$

$$2\sqrt{2}$$

$$\sqrt{8}$$

Expressions

- Place **GREEN** first
- Then, place the **BLUE** underneath and match which green it is equivalent to
- Check the placing and spacing
- Reflect

Andrew Stadel

<https://drive.google.com/file/d/0B0Lk45wvjYBuVDRIrIjJIQXZhLWM/view>

$$m - 5$$

$$m$$

$$\frac{m}{3}$$

16	$3x+4$	0	$0x$
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Equations

- Place the **YELLOW** cards

Mr. Orr

<http://mrorr-isageek.com/double-clothesline-solving-equations/>

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$5x-2$

0

$0x$

Equations

- Place the **GREEN** cards

Mr. Orr

<http://mrorr-isageek.com/double-clothesline-solving-equations/>

Equations

- Place the **BLUE** cards

Mr. Orr

<http://mrorr-isageek.com/double-clothesline-solving-equations/>

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$8x+5$

0

$0x$

System of Equations

$4x+10$	$6x+2$	0	$0x$
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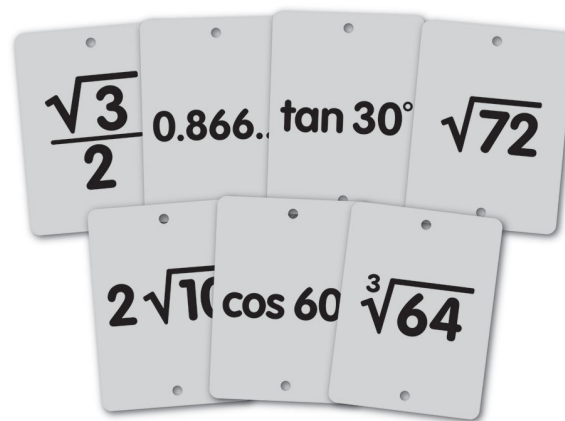
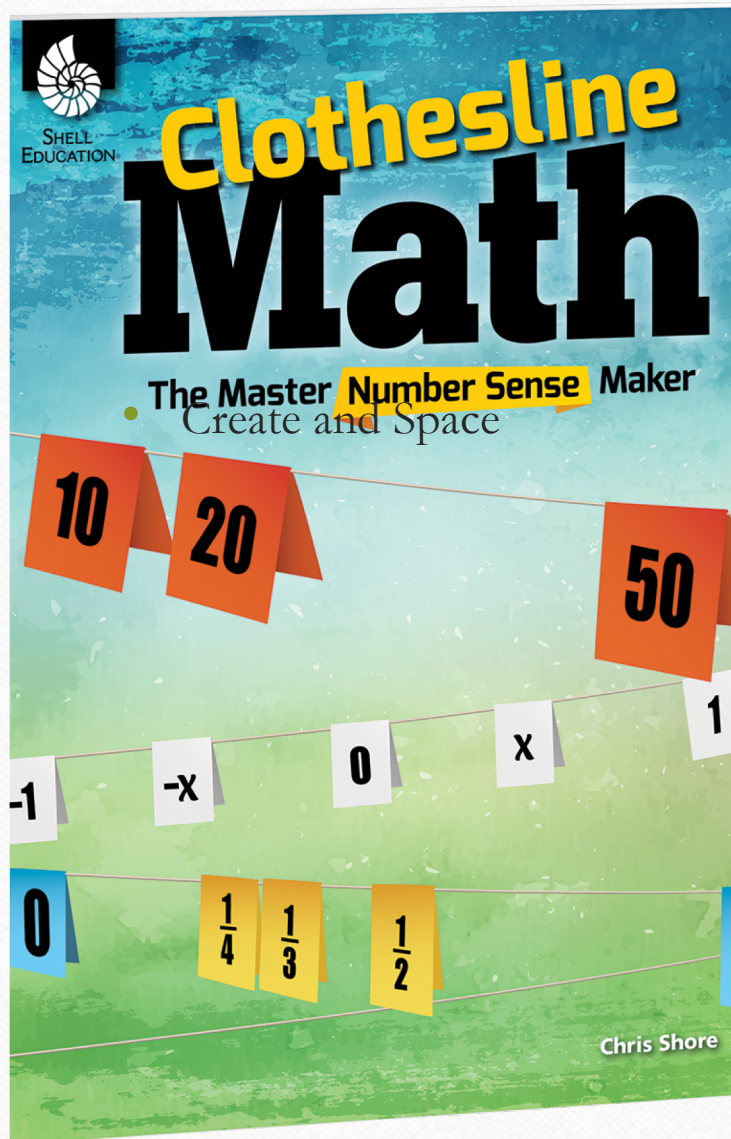
- Equal Value Method and Substitution Method
- Place the **YELLOW** cards

Mr. Orr

<http://mrorr-isageek.com/double-clothesline-solving-equations/>

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Resources

- <https://clotheslinemath.com/geometry/>
- <http://mrorr-isageek.com/double-clothesline-solving-equations/>
- <http://www.estimation180.com/clothesline.html>
- <http://marybourassa.blogspot.ca/2016/02/log-clothesline.html>
- <https://themindofanaprilfool.com/clotheslines/>