

DIG INTO LINEAR FUNCTIONS: STACKING CUPS

Presented by MathLinks Authors Mark Goldstein and Shelley Kriegler

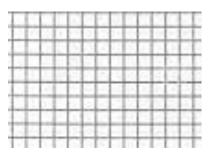
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In this session, we will explore a context that motivates students to:

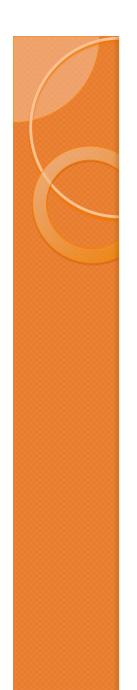
- Decide what data to collect and how to organize it to solve a problem,
- Use multiple approaches and tools to solve a problem,
- Explore some features of linear functions.







As we add the same number of cups to each stack, you think this always be true? Explain.



SPARK DISCUSSION WITH A VIDEO



From Andrew Stadel's Stack Cups at www.101qs.com

COLLECT SOME DATA

for the blue cups

Choose your variables



Choose an appropriate unit of measure

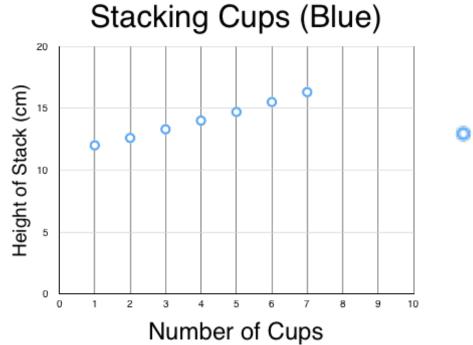
Record data in the table

# of Cups	I	2	3	4	5	6	7
Height – Blue (cm)	12	12.6	13.3	14	14.7	15.5	16.3

GRAPH THE DATA

for the blue cups

# of Cups	I	2	3	4	5	6	7
Height – Blue (cm)	12	12.6	13.3	14	14.7	15.5	16.3



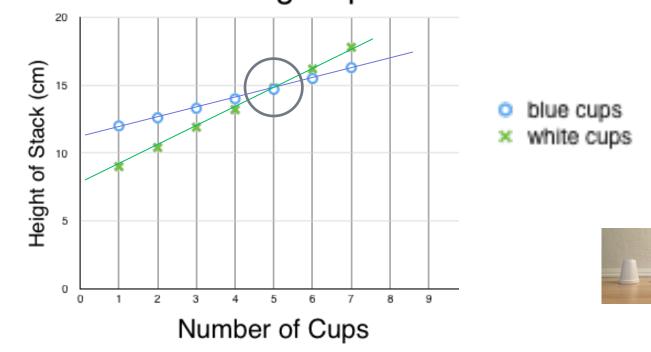




WHICH IS TALLER?

# of Cups	I	2	3	4	5	6	7
Height - Blue (cm)	12	12.6	13.3	14	14.7	15.5	16.3
Height - White (cm)	9	10.4	11.9	13.2	14.8	16.2	17.8

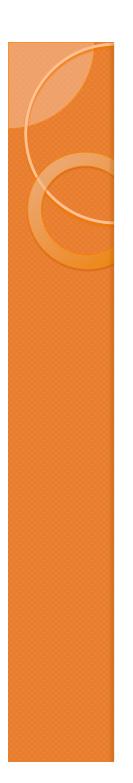
Stacking Cups



In this session, we

- Decided what data to collect and how to organize it to determine which stack of cups was taller.
- Used tables and graphs to solve a problem.
- Discussed some features of linear functions within a real life context.









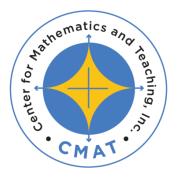
OUR PROGRAMS:

- Comprehensive 6-8 curriculum
- Customized intervention grades 6-9
- Special education programs
- Supplemental programs
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For more information, please visit our website at www.mathandteaching.org







THANK YOU!

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