Meaningful Marbles

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1966-2016 Celebrating 50 Years

MSIC

MathScience Innovation Center

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Activity

Data collection

1. Gather materials
   - 100 ml graduated cylinder with water in it
   - Bag of marbles
   - Empty cup and funnel
   - Handout
   - Straight edge

2. Identify the variables

3. Collect data; record on data collection sheet

4. Graph the data

Connections?

- Slope and y-intercept
- Equation of a line
- Make predictions
- Domain and range
- Line of Best Fit
- Volume of one marble

Slope, y-intercept, equation of line

How could you describe the location of your line on the graph without giving them the data points?

Domain & Range

What is the minimum amount of water needed to cover your eight marbles?

What is the maximum amount of water you could start with so your graduated cylinder did not overflow when you added your eight marbles?