

# **Farm to Fork: Moving from Theory to Practice**

**Childhood Obesity Conference  
Mini-Plenary Session Three**

**Thursday, June 30, 2011  
1:00-3:00 p.m.**

*“When a political system fails to give large numbers of men the freedom it has promised, then they are willing to hand over their destiny to another political system. When the existing machinery of peace fails to give them any hope of national prosperity or national dignity, they are ready to try the hazard of war. When education fails to teach them the true nature of things, they will believe fantastic tales of devils and magic. When their normal life fails to give them anything but monotony and drabness, they are easily led to express themselves in unhealthy or cruel ways, as by mob violence. And when science fails to furnish effective leadership, men will exalt demagogues and science will have to bow down to them or keep silent.”*

*—Henry Wallace, former Vice President and Secretary of USDA*

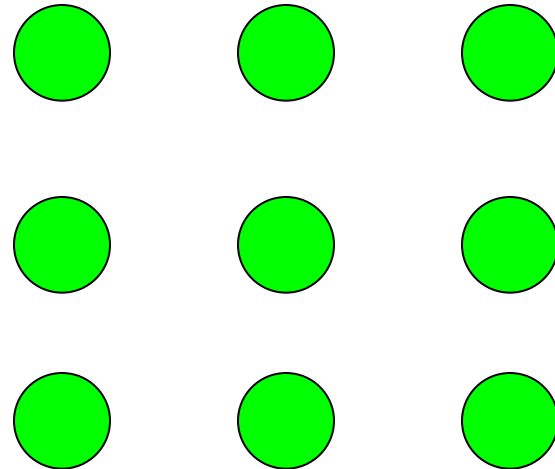
# Connecting the Dots

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**Draw 9 dots on a sheet of paper.  
Your task is to join all nine dots.**

**Rules:**

- 1. Use only four (or less) straight lines**
- 2. NO lifting your pencil from the paper**
- 3. NO retracing your lines**

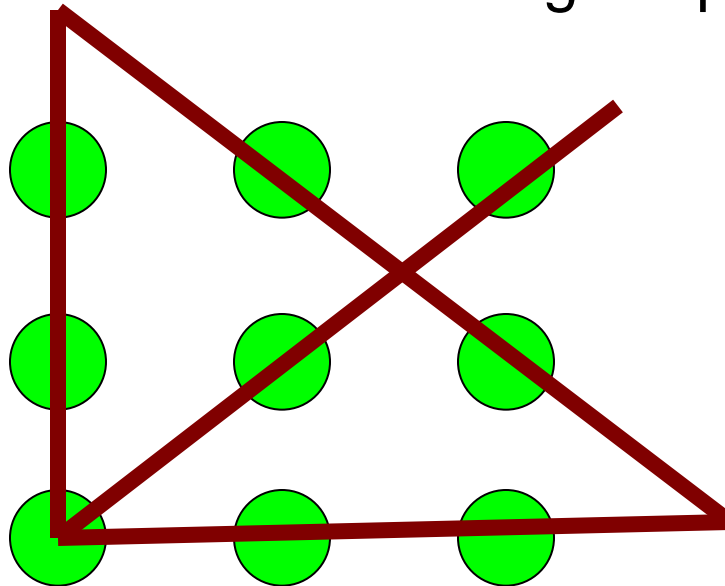


# Solution #1:

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Many people who try to solve this problem start with the assumption that the lines must be inside the square formed by the dots.

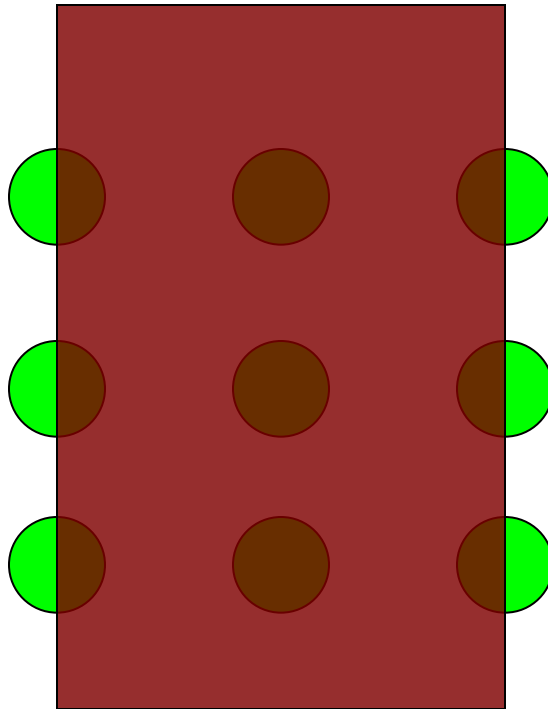
But this was never stated in the original problem!



# Solution #2:

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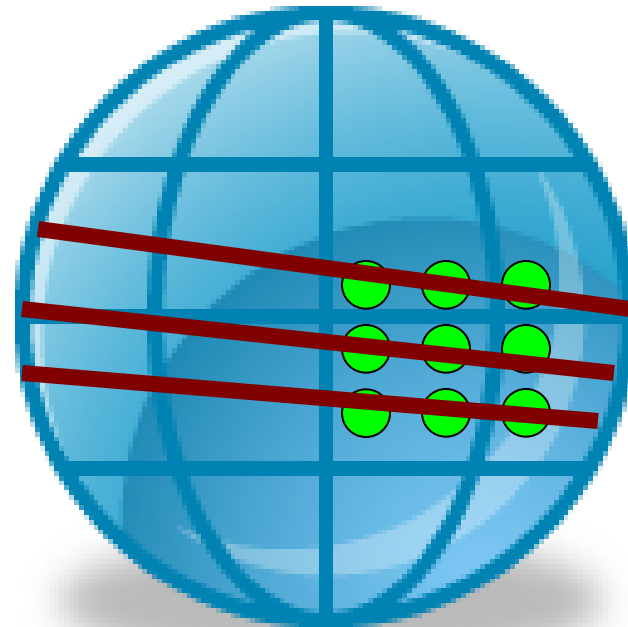
If we used a REALLY thick marker, join the dots with just one line.



# Solution #3:

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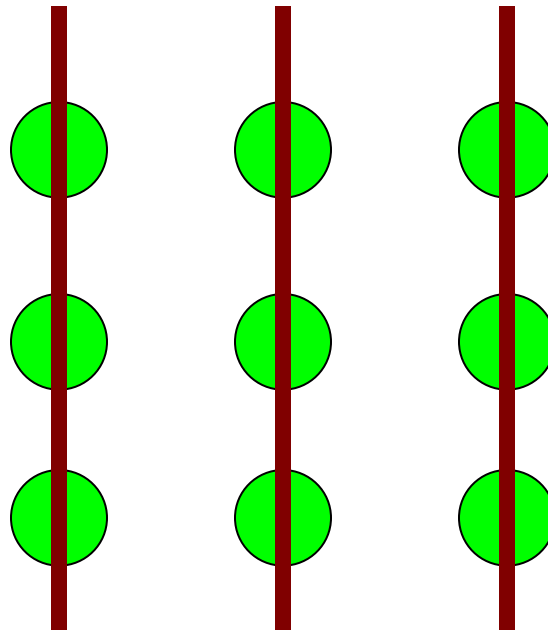
If we laid the paper on the ground, we could draw one very long line which encircles the Earth three times, joining one row of dots each time



# Solution #4:

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In mathematical terms, parallel lines are sometimes considered to "join" at infinity, so here's a solution that uses just three lines!



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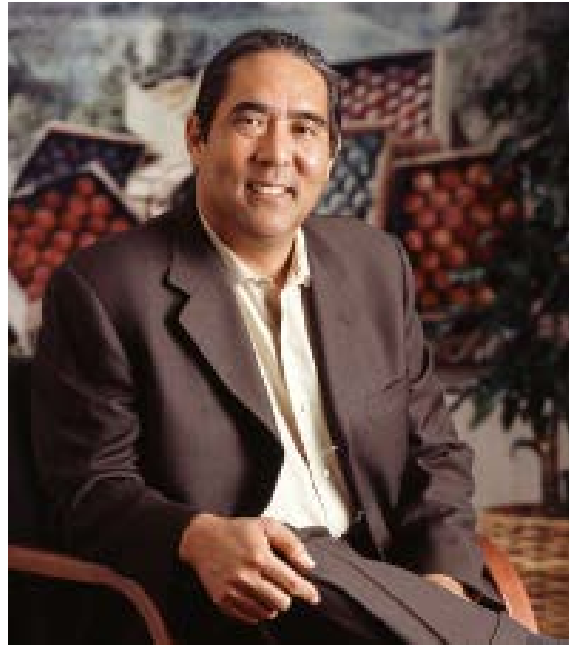
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# A.G. Kawamura

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Founding Partner, Orange County Produce, LLC



# Cecily Upton

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Program Director, Food Corps



# Vanessa Zajfen

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Food Service Specialist, Farm to Institute,  
San Diego Unified School District



# Rodney Taylor

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Director of Nutrition Services, Riverside Unified School District

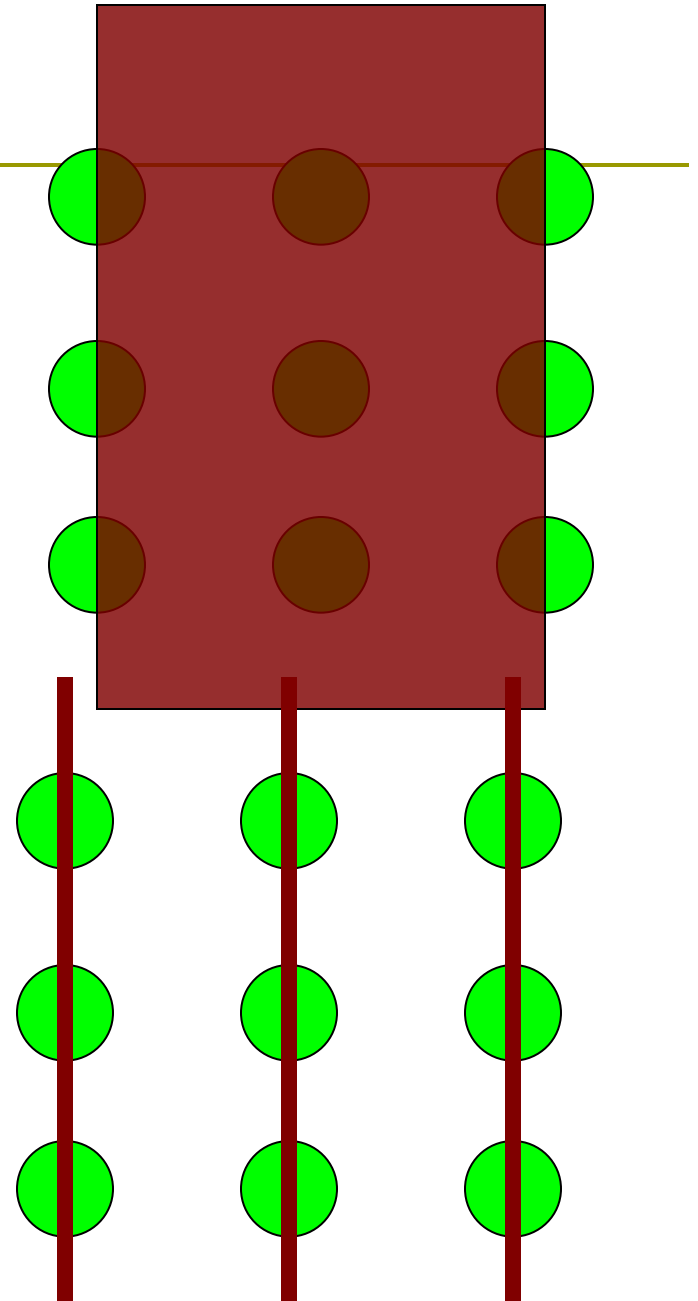
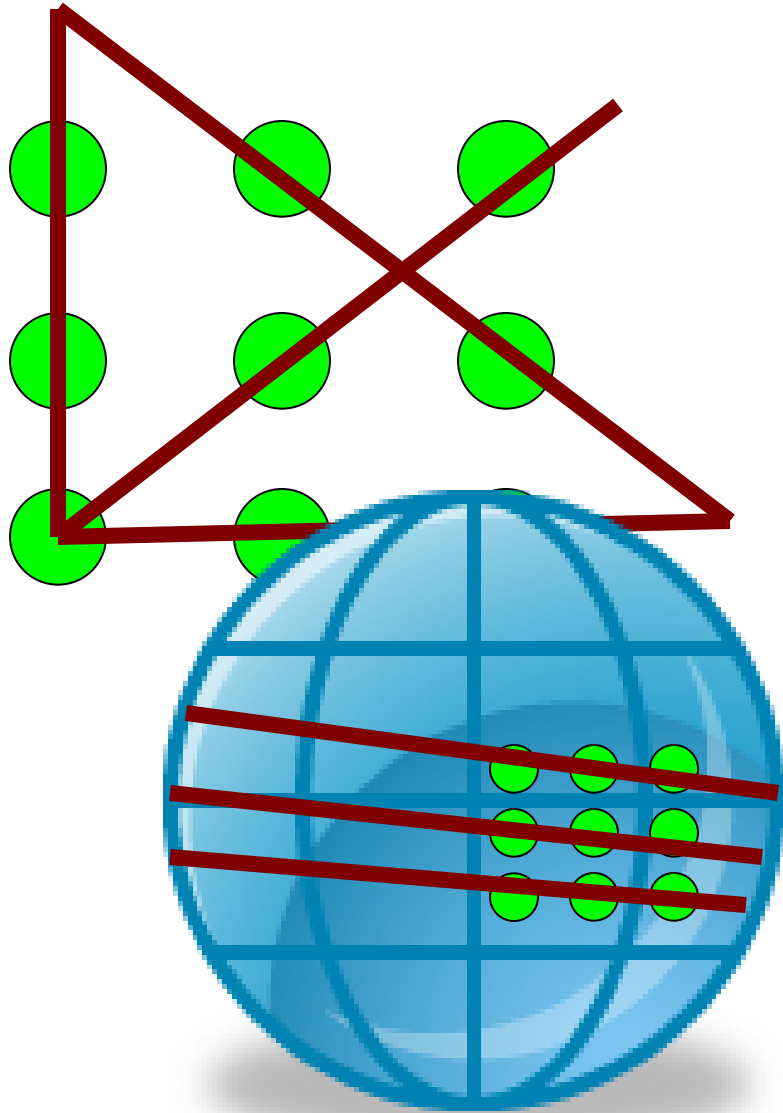


# Questions?

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# One Problem with Multiple Solutions

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