

Algebra's Next Top Model: Why do science teachers get to have all the fun?

NCTM Conference 2012

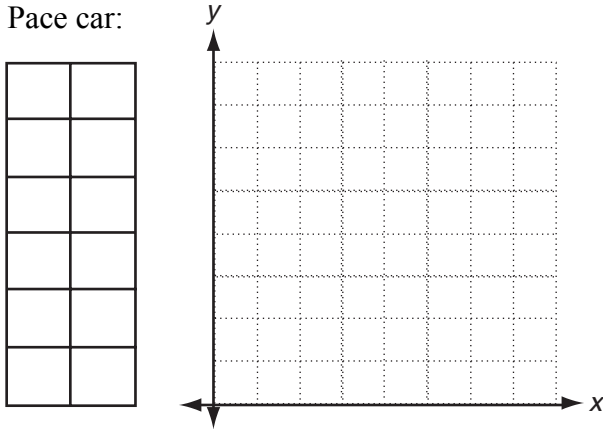
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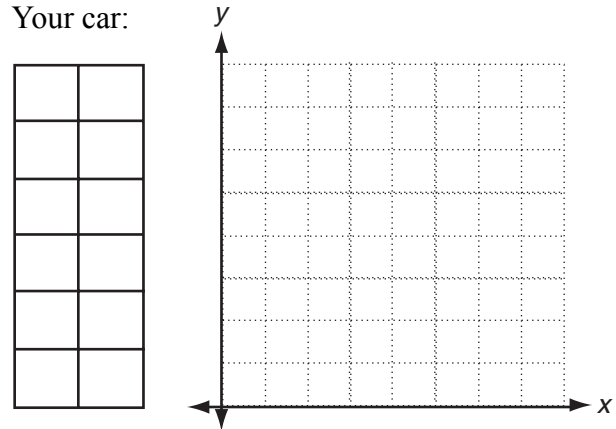
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Dune Buggies: <http://tinyurl.com/nctmdunebuggy>

Pace car:



Your car:



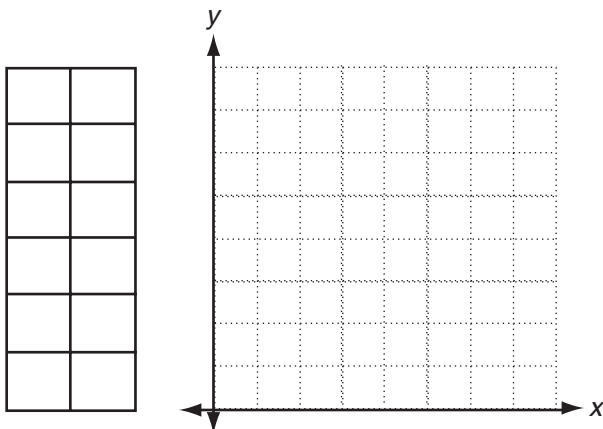
How fast is the pace car going?

How fast is your car going?

How much of a head start would you need to tie the pace car?

Catapult: <http://tinyurl.com/nctmcatapult>

Three points for your catapult:



System of equations for your catapult:

The target is 120 cm high. How far away should your catapult be from the castle to hit the target?

Notes:

Bibliography/Resources:

College Preparatory Mathematics: Math 1 (Algebra 1) Unit 7 “The Big Race,” www.cpm.org

ConnectEd California: Algebra 1 through Technology Applications,
<http://www.connectedcalifornia.org/>

Dukerich, Larry: Modeling Resources, <http://modeling.asu.edu/modeling-hs.html>

Erickson, Tim: Explorations in Geometry, Algebra and Data,
<http://www.eeps.com/resources/index.html>

Handouts we use: https://sites.google.com/a/iteach.org/town_math/sharedfiles

Session ppt and handout: <http://nctm.confex.com/nctm/2012AM/webprogram/Session8296.html>