

Russell County Schools Non-Traditional Instructional Expectations

Day: 3

School: RCHS Course/Subject: Algebra I Teacher: Pam Wilson

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Class Blog: pamwilson.wordpress.com

Learning Target: *Students will use reasoning skills to solve mobile puzzles.*

Lesson Expectations:

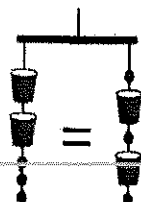
Students will complete and give explanation to reasoning on how they solved / thought about the puzzle as they were solving it.

Go to solveme.edc.org for more examples.

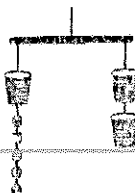
Solving Mobile Puzzles

In each of these problems, a dot (•) equals 1.

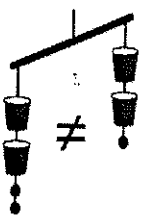
① This mobile *always* balances. Why?



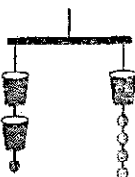
② This mobile *only* balances when the buckets represent a certain number. What number makes it balance?



③ This mobile *never* balances no matter what number the bucket represents. Why?



④ Does this mobile balance *always, sometimes, or never?*



If sometimes, *when?*

For Alternate Assignment Options:

solveme.edc.org

Visualpatterns.org

Which One Doesn't Belong Website: wodb.org

Estimation180.com

Desmos.com student.desmos.com

[Would You Rather Math](http://WouldYouRatherMath.com)

For Supplemental Resources and Support: pamwilson.wordpress.com

For Teacher Support: pam.wilson@russell.kyschools.us

***Reminder: Assignments are due back to teachers within 2 school days.**

Mobile Puzzles: Explain/support your reasoning.

Every beam in the mobiles below is balanced. The strings and the beams weigh nothing. Find the weight of each shape.

