

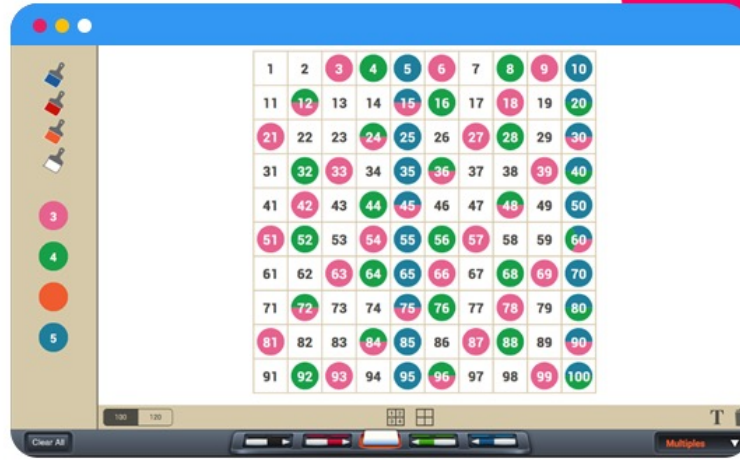
PLAYING THE LONG GAME

ZACHARY CHAMPAGNE

zakchamp.com |  [@zakchamp](https://twitter.com/zakchamp) | zacharychampagne@gmail.com



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I have to remind myself that I'm not aiming for a touchdown every time.

I'm aiming to keep my amazing kiddos moving forward. Each at their own pace.



In recent NCTM publication
by Gina Kling and Jenny Bay-Williams...

UNPRODUCTIVE PRACTICE 4
Not using a coherent, multigrade
approach to facts instruction

“Be the tortoise in the fable of the
tortoise and the hare.”



My Core Teaching Beliefs:

- 1 It's okay to walk away from a math problem.
- 2 It's okay to not be finished when class ends.
- 3 Your wonderings are important.
- 4 You have important mathematical ideas.
- 5 Play matters.



1

It's okay to walk away from
a math problem.



”Can I do this tomorrow?
It’s too hard.”



If a problem is worth
solving, it is worth walking
away from.



Walking Away from a Mathematics Problem Is OK

Providing students the autonomy and choice to learn when productive struggle becomes unproductive is a core teaching belief in the author's classroom. This article tells the story of one student's ability to know and express when his frustration was too great and how he chose to walk away from his work and return the next day.

Zachary Champagne



2

It's okay to not be finished
when math class ends.



Can you compose larger triangles
with only triangles?

How many triangles did you use?



Can you compose larger rhombi
with only rhombi?

How many rhombi did you use?





Zak Champagne

@Zakchamp



"You don't have to always finish a problem to learn from it." [@JBayWilliams](#)

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2

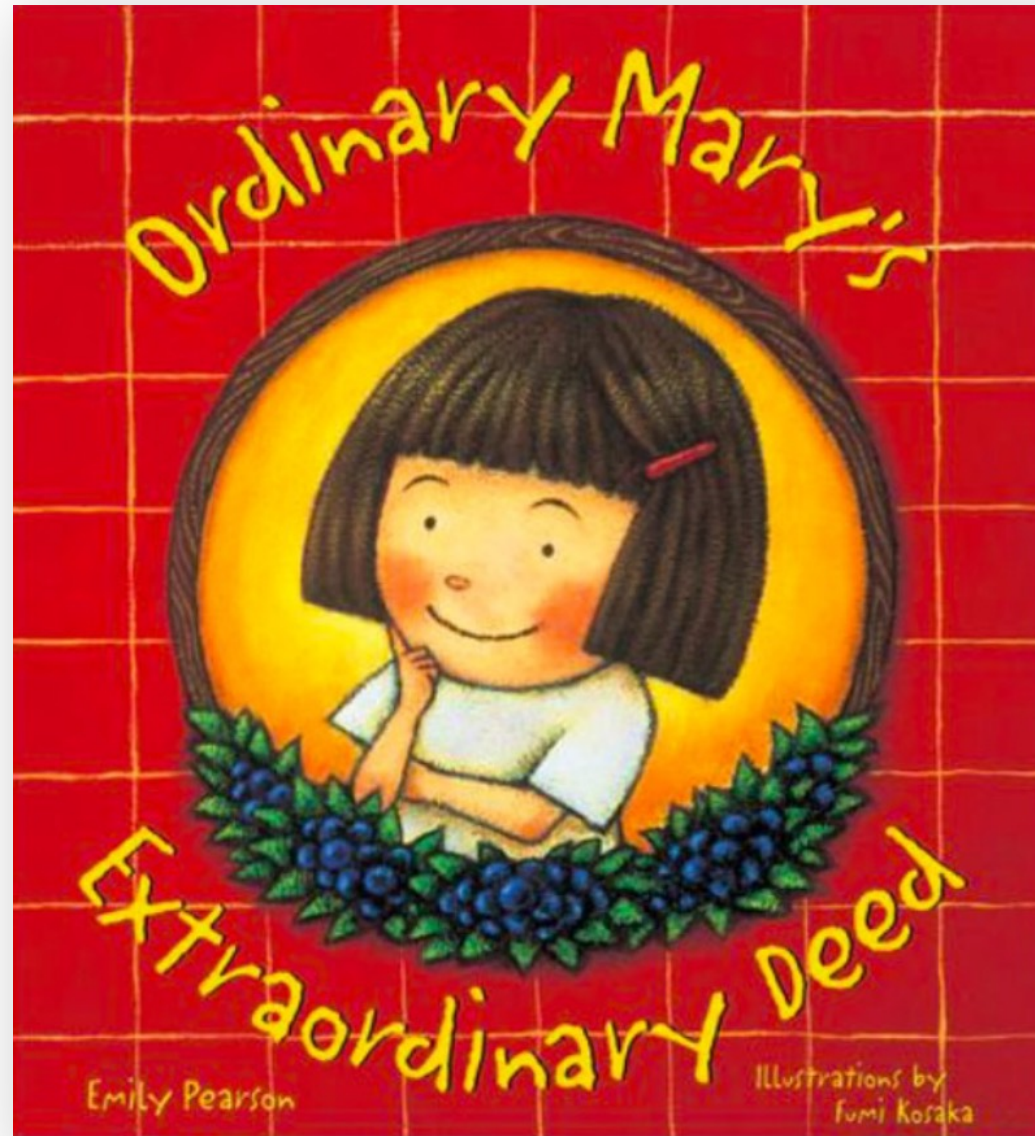
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208



Be prepared to be surprised.





3

Your wonderings are important.



What do you notice?
What do you wonder?



Notice

Wonder



Main Question:

How many seats are on the train?



Estimates



What information do you need?



4

You have important
mathematical ideas.



Story Problem Routine



Mr. Zak has 16 pieces of candy.

Ms. Claire has 9 pieces of candy.



Mr. Zak has 16 pieces of candy.
Ms. Claire has 9 pieces of candy.

How many more pieces of candy does
Mr. Zak have than Ms. Claire?



A farm is selling eggs by the dozen.

If you buy 7 dozen eggs, how many eggs do you have?



Routines That Get At Students' Important Mathematical Ideas:

- Number talks
- Splat
- Story problem routine
- How Many?
- Which One Doesn't Belong?
- Ways to Make _____
- Three Act Tasks
- Counting Collections
- Notice/Wonder



5

Play Matters.



Play is a particular *attitude* or *approach* to materials, behaviors, and ideas and *not* the materials or activities or ideas themselves; play is a special mode of thinking and doing.
(McLane, 2003)



Play generates situations where there
is no one 'right' answer.
McLane (2003)



Children who play together
learn to work together.



Build something...





THANK YOU!

ZACHARY CHAMPAGNE

zakchamp.com |  @zakchamp

zacharychampagne@gmail.com