3 Act Lesson

Title: Do-the-Dew link: https://gfletchy.com/do-the-dew/

Big Idea: multiplying whole numbers by a fraction

Curricular Competencies:

- estimating reasonably
- developing mental math strategies and abilities to make sense of quantities
- visualizing to explore mathematical concepts
- developing and using multiple strategies to engage in problem solving



ACT ONE:

Establishing a Need to Know: watch the 9 second clip. After viewing the short clip, invite students to consider:

What did you notice?	What do you wonder?

and jot down the ideas as students share their thinking...

Driving Question: How many cups of sugar are in a case of Mountain Dew?

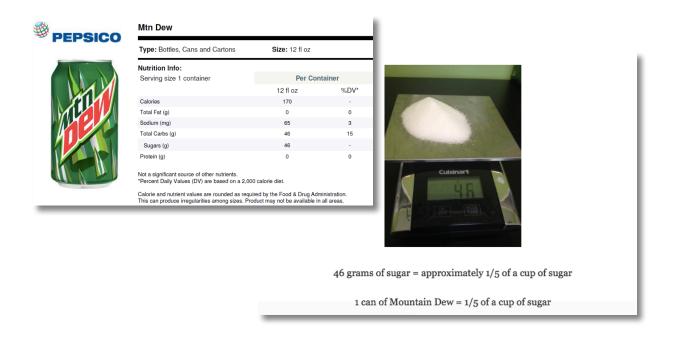
Estimating: invite students to think of a reason estimate for how many cups of sugar would be too few, and a reasonable estimate for how many cups of sugar would too many for a whole case of Mountain Dew.

A too low estimate:	A too high estimate:

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ACT TWO:

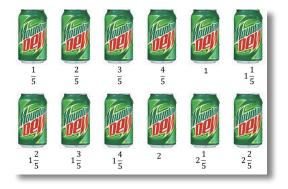
What information would be helpful to know for solving this investigation?



Students will now work in visibly random teams of three to solve the investigation using one dry erase marker, one eraser and a large vertical non-permanent surface

ACT THREE:

Share the photograph that reveals the solution. Invite students to communicate their strategies for arriving at the solution for how many cups of sugar there is in a case of Mountain Dew.



Whole Group reflection:

Strengths: What worked (What strategies did you use to work toward a solution)?

Stretches: What was difficult?

Next steps: What would you do differently next time?