


VIDEO: The R2D2 Problem

 <http://mrorr-isageek.com/spiralling-grade-9-applied-math/>

THINK-PAIR-SHARE: Start on your whiteboard.

1. What are some things you **NOTICE**?
2. What do you **WONDER**?

I notice...	I wonder...
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The R2D2 Problem

OUR PROBLEM:

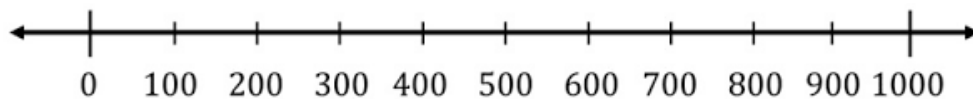
1) How many Post Its?
2) How long did it take?

THINK-PAIR-SHARE: What *information* will we need to solve the problem?

The R2D2 Problem

INDIVIDUAL WORK: On your whiteboard.

1. ESTIMATE: Sketch a sticky note, with estimated dimensions.
2. PREDICT: On a number line like mine, make 3 predictions about how many sticky notes it will take to cover the board:



TOO HIGH

TOO LOW

BEST GUESS



The R2D2 Problem

GROUP WORK: On your chalk board.

CALCULATE how many stickies it will take to
cover the board.

The R2D2 Problem

What is THE SAME about these solutions?

What is DIFFERENT?

Group #4:

Across
 $42 \div 2 = 21$
 Down
 $43.5 \div 1.5 = 29$
 $21 \times 29 = 609$
 There would be 609 post-it notes would fit in an area of 1827

Group #8:

board dimension

$43.5 \times 42 = 1827 = \text{Area of Board}$

Post-its dimension \swarrow $1.5 \times 2 = 3 = \text{Area of Post It}$

$1827 \div 3 = 609$

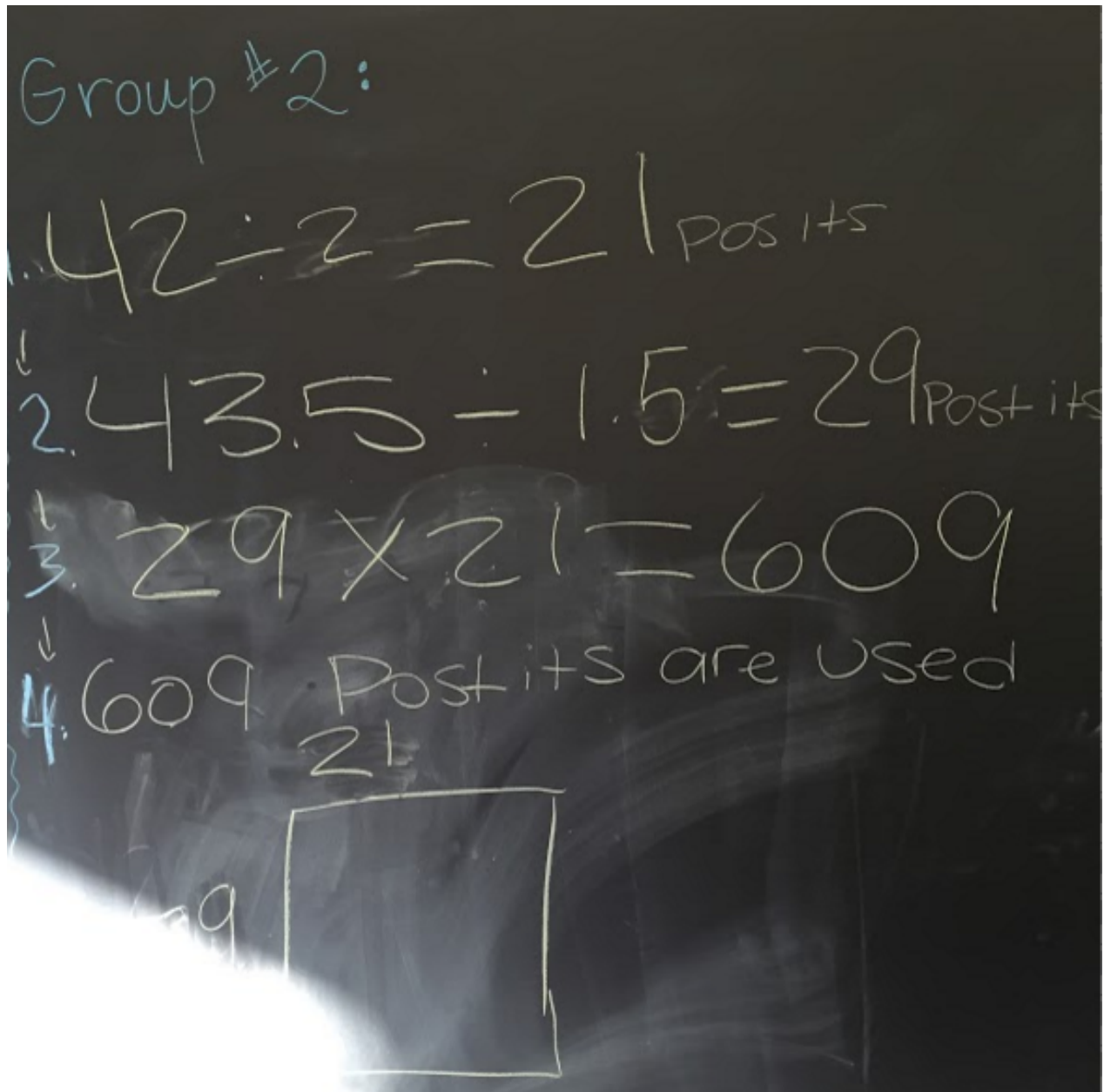
board area post-its area How many post-its

OK

The R2D2 Problem

What was really **great** about this work?

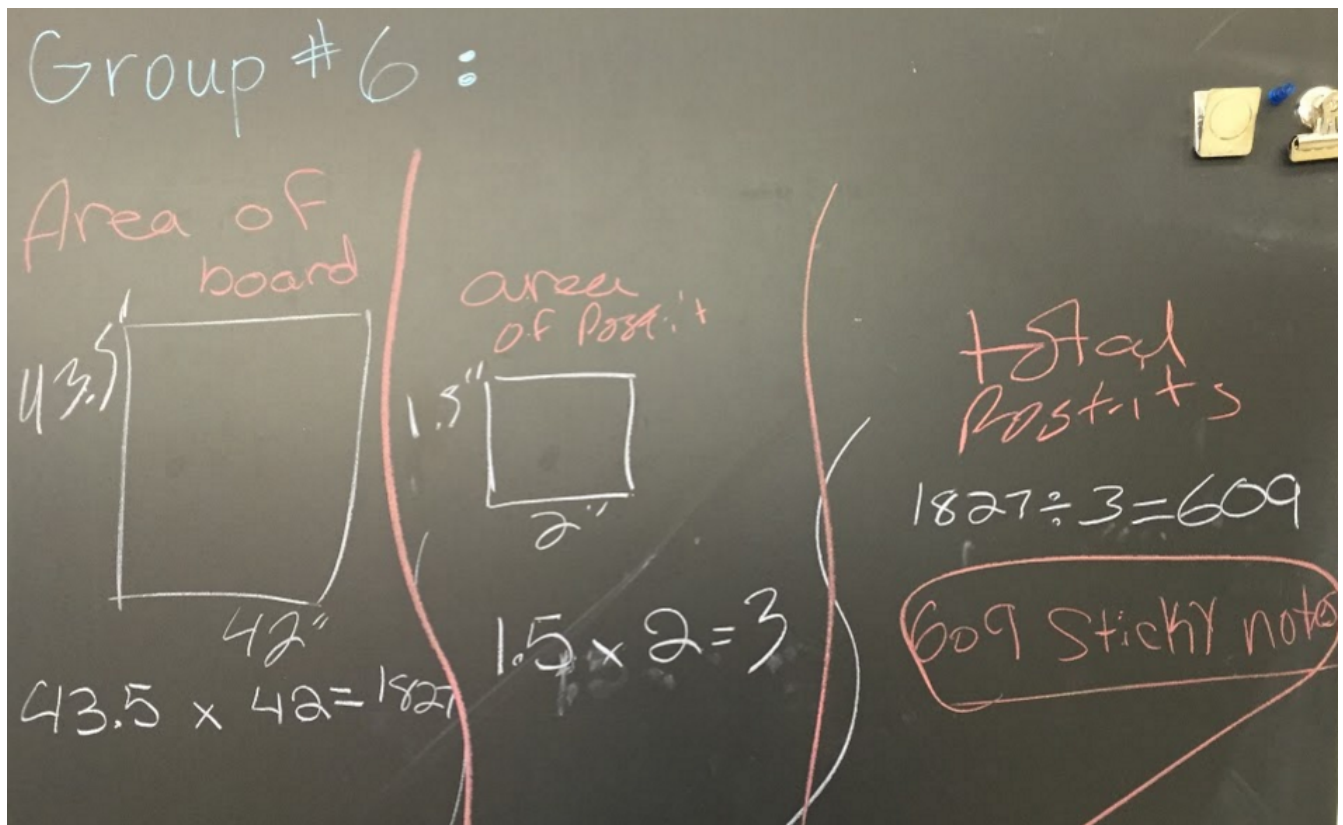
What could be **even better** in this work?



The R2D2 Problem

What was really **great** about this work?

What could be **even better** in this work?



The R2D2 Problem

GROUP WORK:

CALCULATE how long it will take
to cover the board.