

# The Lemonade Problem

 [https://youtu.be/ZfdZuWUGM\\_A](https://youtu.be/ZfdZuWUGM_A)

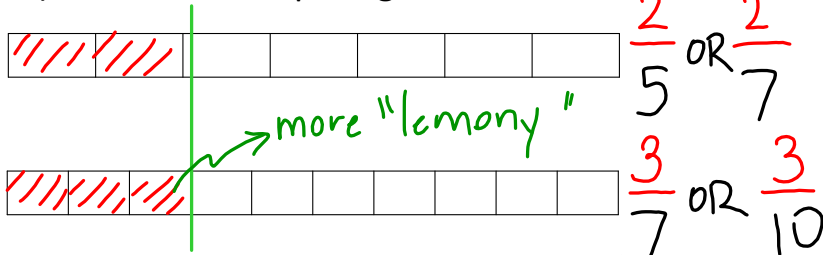
Watch the video. While you're watching, write on your whiteboard:

**I notice...**

**I wonder...**

## OUR STRATEGIES:

1) Fractions: comparing a same sized "whole"



2) Fractions: comparing a same sized "whole" by finding a common denominator

$$\frac{2}{5} = \frac{14}{35} \quad \frac{J}{W} \quad \frac{3}{7} = \frac{15}{35} \quad * \text{more "lemony"}$$

Handwritten work shows the conversion of  $\frac{2}{5}$  to  $\frac{14}{35}$  by multiplying numerator and denominator by 7, and  $\frac{3}{7}$  to  $\frac{15}{35}$  by multiplying numerator and denominator by 5. The 15 in the second fraction is circled.

3) Table of values: growing the pattern to find a common denominator

J	W
2	5
+2 < 4	> +5 10
+2 < 6	> +5 15
8	20
10	25
12	30
14	35

J	W
3	7
+3 < 6	> +7 14
+3 < 9	> +7 21
12	28
15	35

more "lemony"

4) Percent: comparing by finding a common denominator of 100 %

$$\frac{2}{5} = \frac{40}{100} \quad \frac{3}{7} = \frac{42.9}{100}$$

Handwritten work shows the conversion of  $\frac{2}{5}$  to  $\frac{40}{100}$  by multiplying numerator and denominator by 20, and  $\frac{3}{7}$  to  $\frac{42.9}{100}$  by multiplying numerator and denominator by 14.3. The 42.9 in the second fraction is circled.