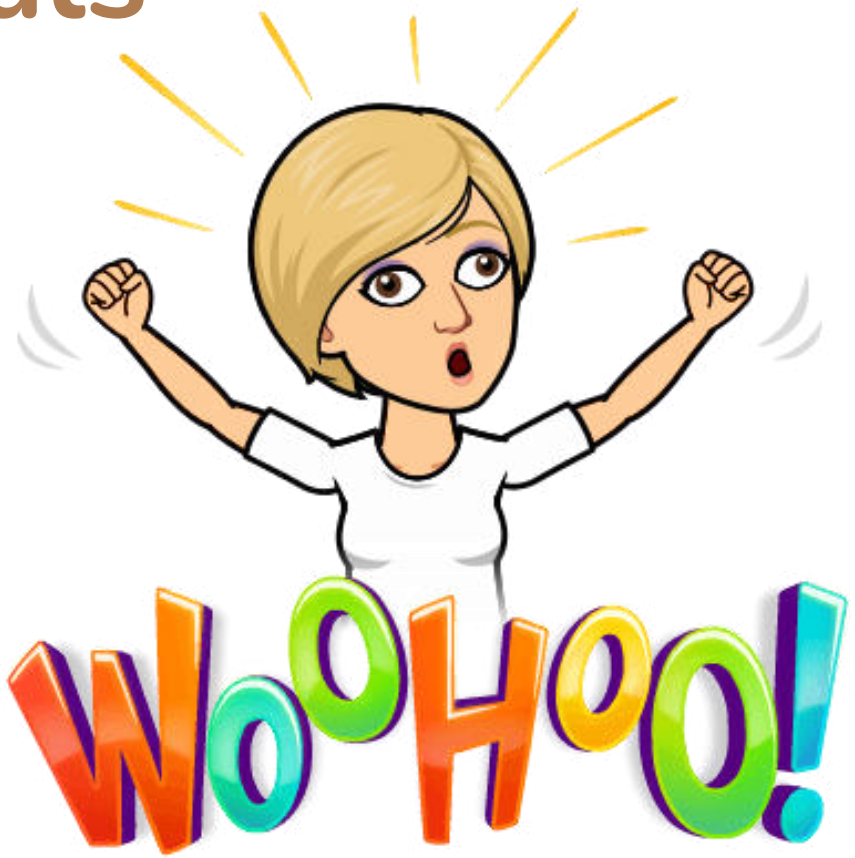
Today's Materials

- calculator
- pencil
- notebook
- glue



One of These Things Is Not Like the Others

Lesson 1

CCSS Standards: Building on	• 6.RP.A
CCSS Standards: Addressing	• 7.G.A.1
CCSS Standards: Building towards	• 7.RP.A

Let’s remember what equivalent ratios are!

Today's Goals

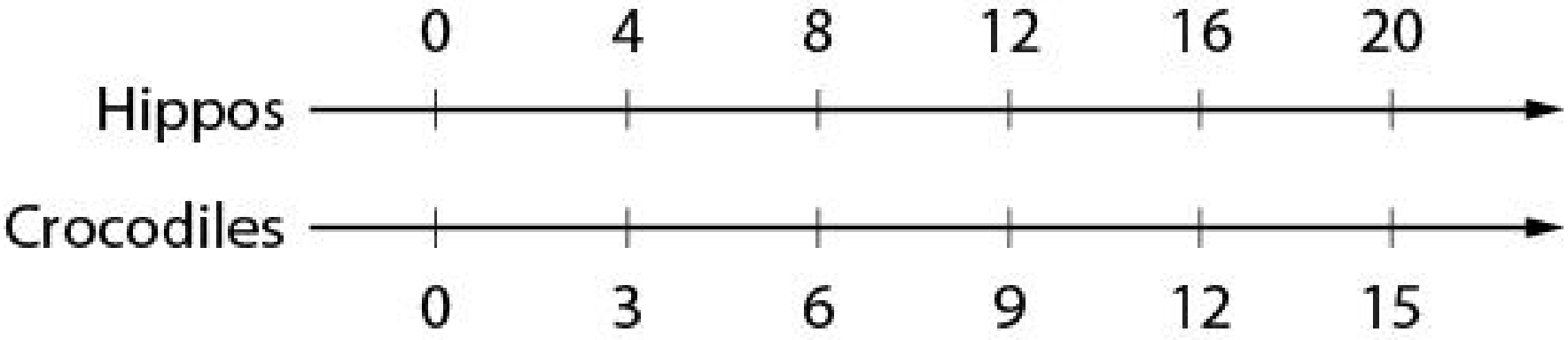
- ❑ I can use equivalent ratios to describe scaled copies of shapes.
- ❑ I know that two recipes will taste the same if the ingredients are in equivalent ratios.

Remembering
Double Number Lines

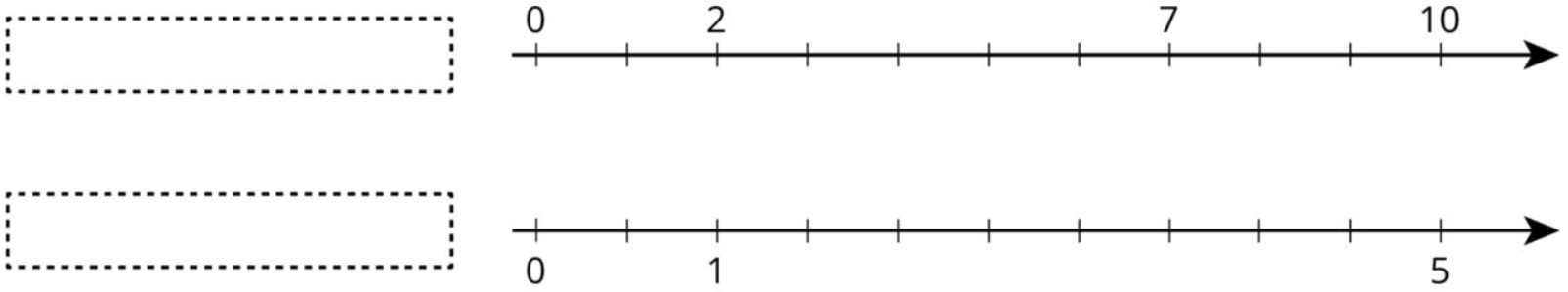
Warm up

- Think, Pair, Share
- Critique, Correct, and Clarify

What do you notice? What do you wonder?



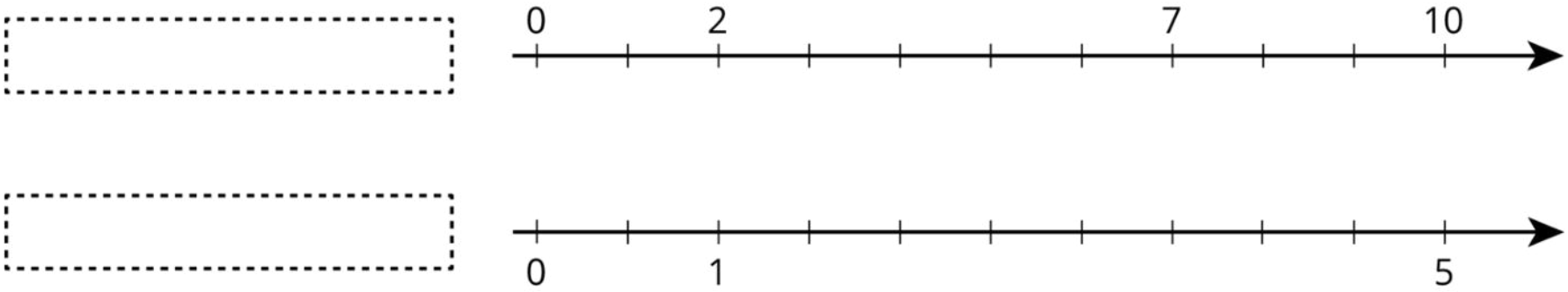
1. Complete the double number line diagram with the missing numbers.



1. What could each of the number lines represent? Invent a situation and label the diagram.
2. Make sure your labels include appropriate units of measure.

What labels could we reasonable for this diagram?

What other equivalent ratios would appear on this double number line as the line continues to the right?



Mystery Mixtures

Activity 1.2

- Three Reads
- Compare and Connect
- Discussion Supports

mixture 1

mixture 2

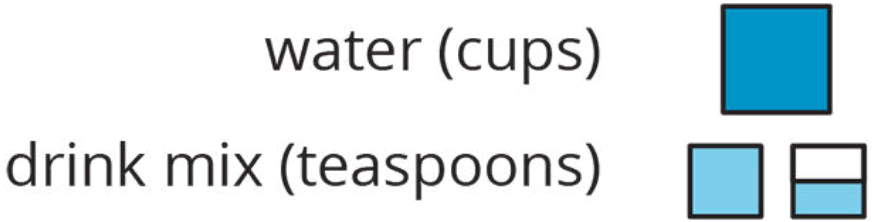
mixture 3

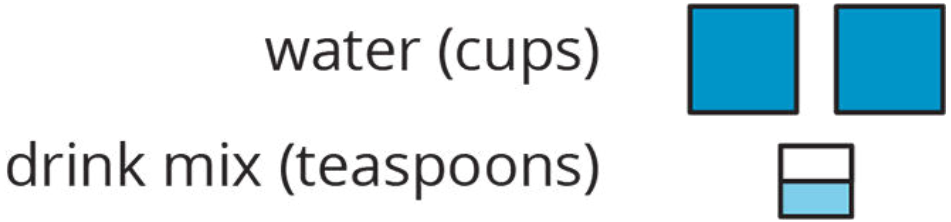
Which mixture tastes different? Describe how it is different.

Which of these recipes is for the stronger tasting mixture?

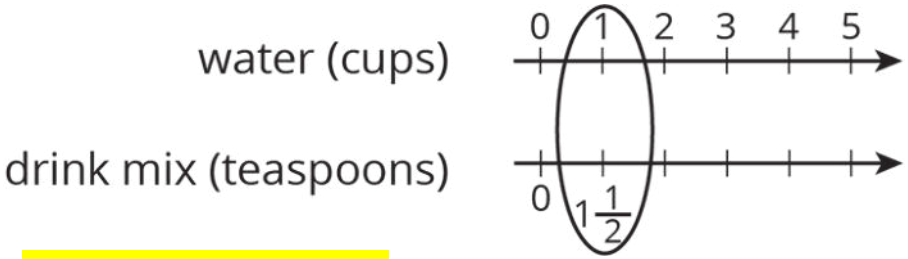
- 1 cup water with 1 ½ tsp of drink mix
- 2 cups water with ½ tsp of drink mix
- 1 cup water with ¼ tsp of drink mix

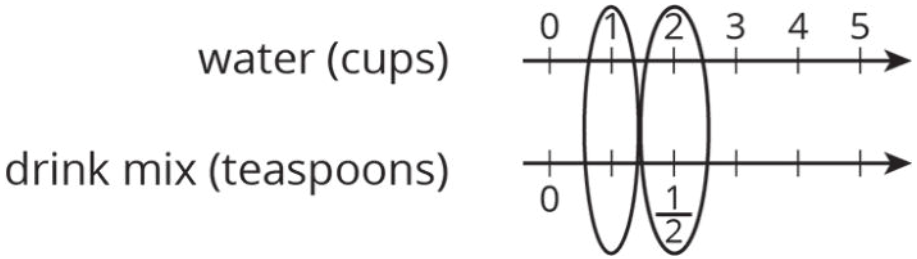
Draw a diagram





Double number line





Make a table

water (cups)	drink mix (teaspoons)
1	$1\frac{1}{2}$
2	3

water (cups)	drink mix (teaspoons)
2	$1\frac{1}{2}$
1	$\frac{1}{4}$

“Are you ready for more?”

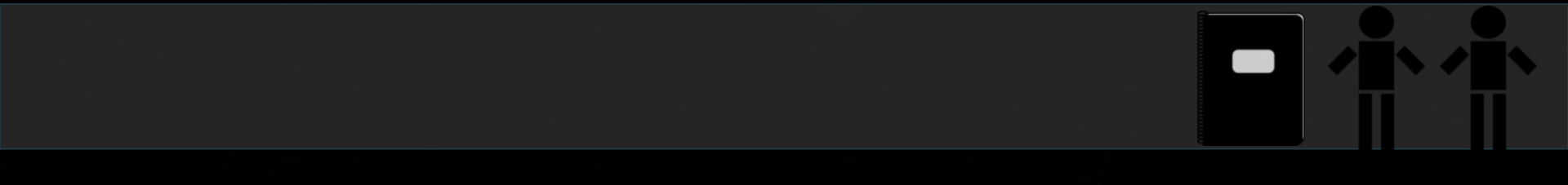
Will any of these mixtures taste exactly the same?

Mixture A:	Mixture B:	Mixture C:
2 cups water	1.5 cups water	1 cup water
4 teaspoons salt	3 teaspoons salt	2 teaspoons salt
0.25 cup sugar	0.2 cups sugar	0.125 cups sugar

Crescent Moons

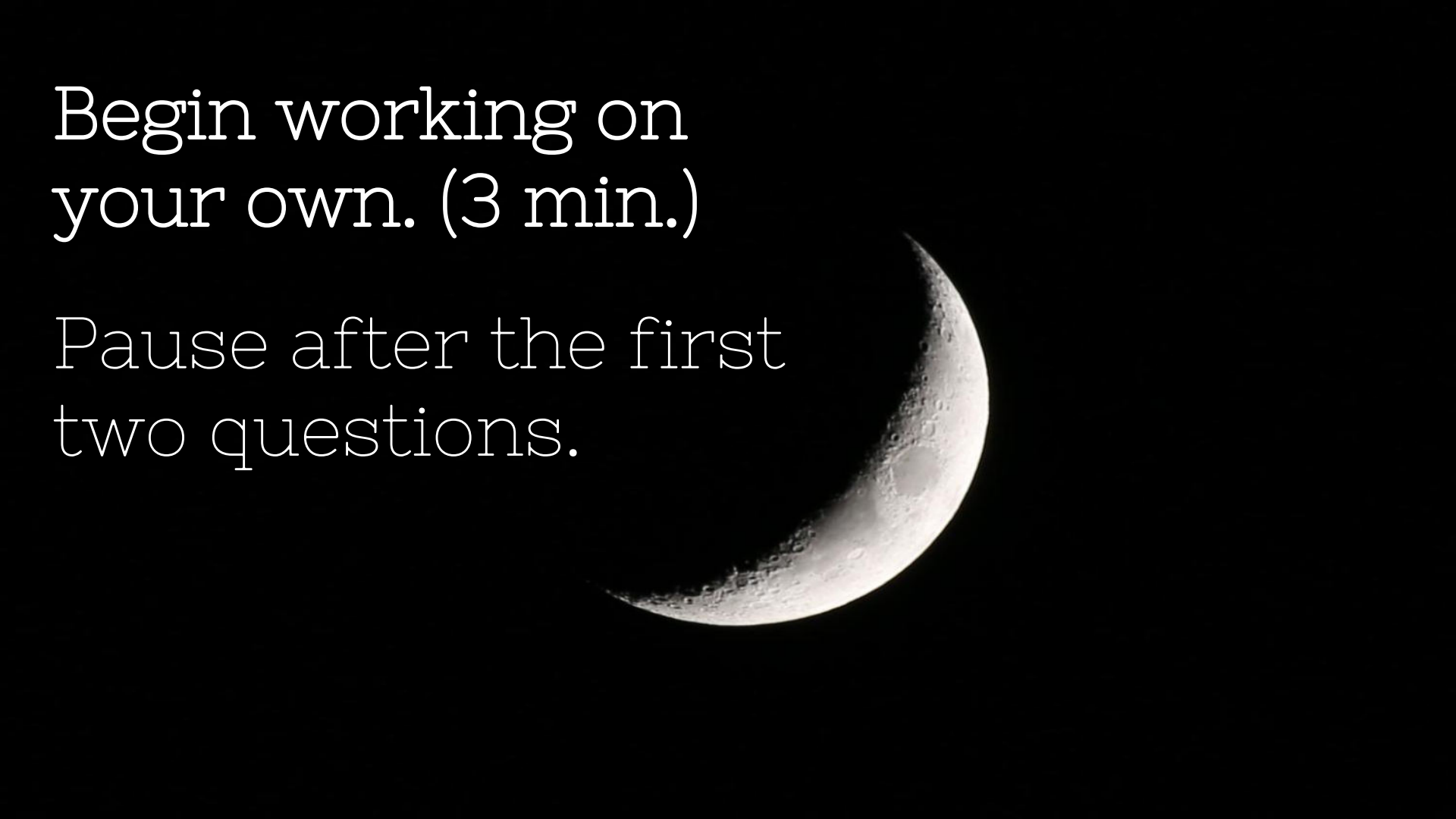
Activity 1.3

- Think Pair Share
- Collect and Display

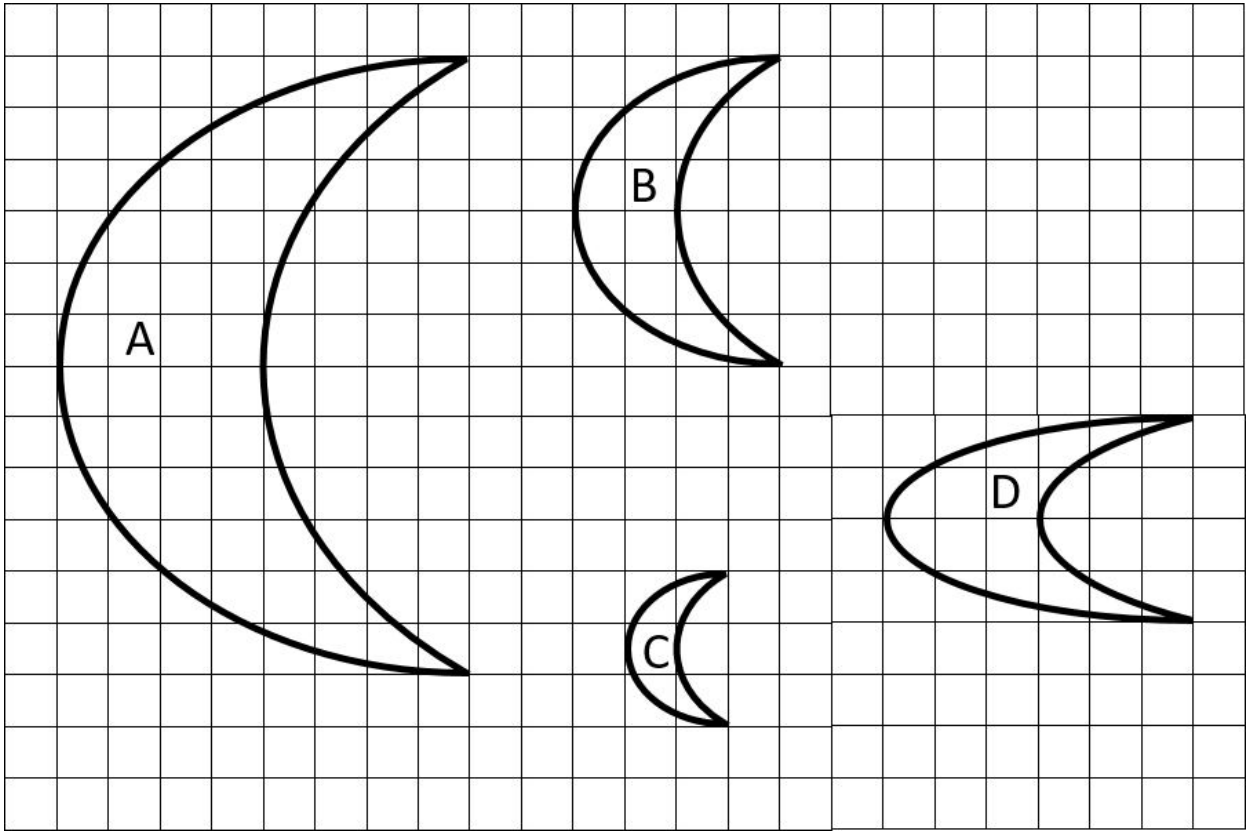


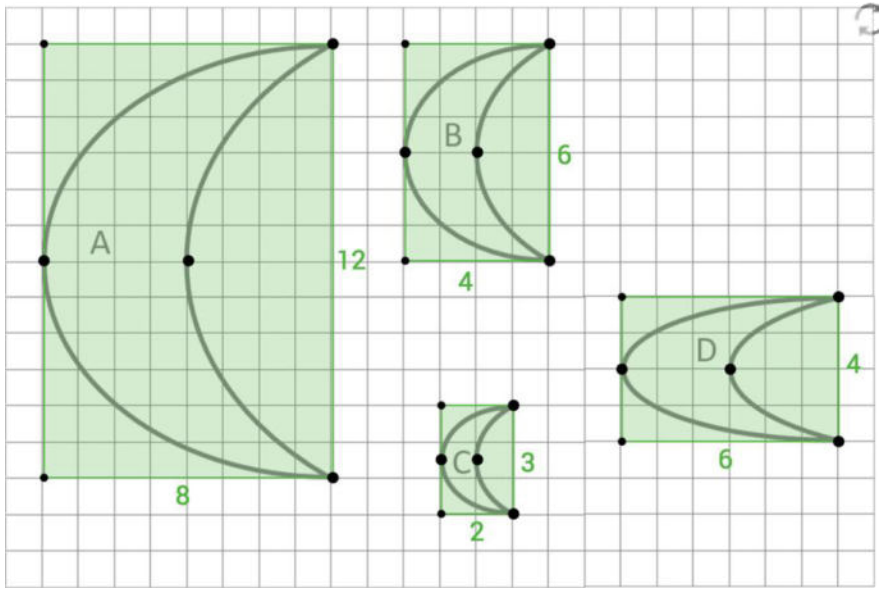
Begin working on your own. (3 min.)

Pause after the first two questions.

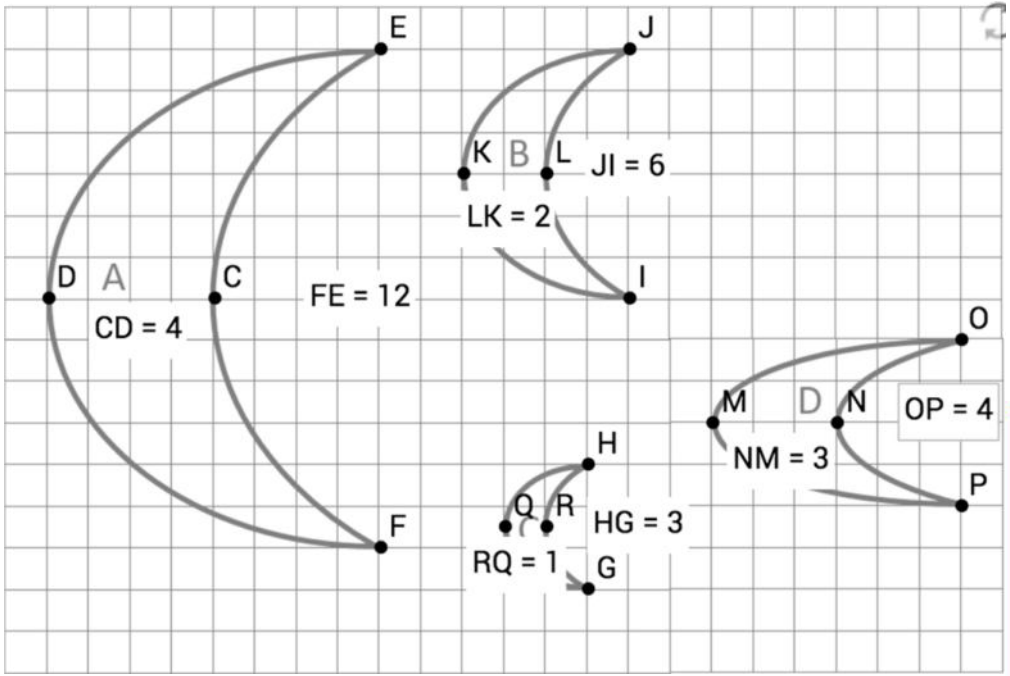


How is moon D different from the other 3?





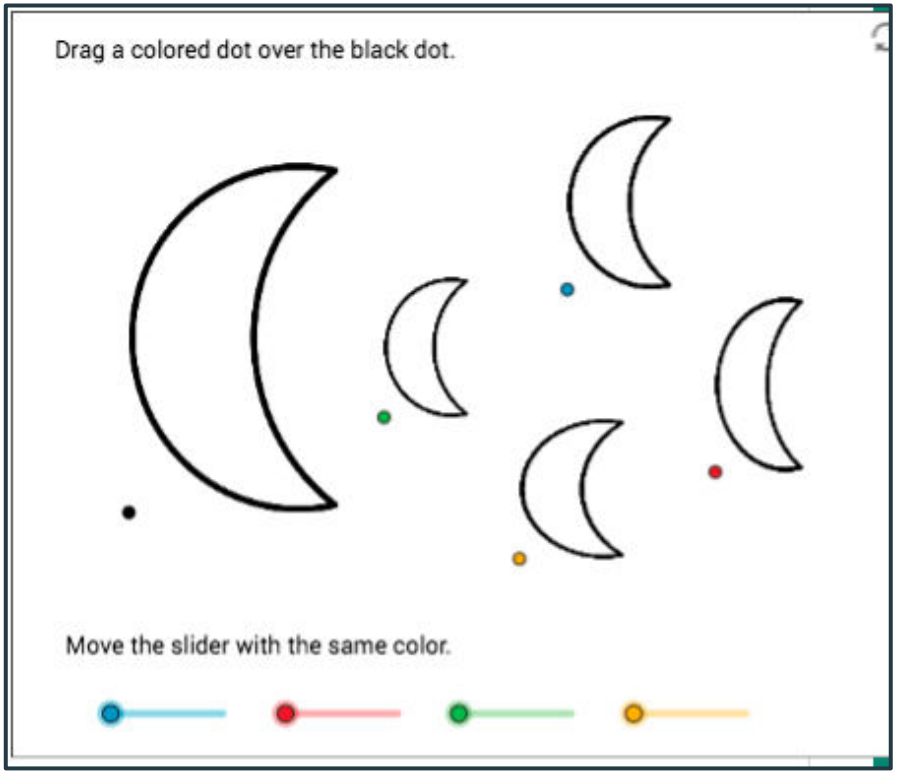
moon	rectangle length (units)	rectangle width (units)	length ÷ width
C	2	3	$\frac{2}{3}$
B	4	6	$\frac{4}{6} = \frac{2}{3}$
A	8	12	$\frac{8}{12} = \frac{2}{3}$
D	6	4	$\frac{6}{4}$



moon	widest part (units)	tip-to-tip (units)	widest part ÷ tip-to-tip
C	1	3	$\frac{1}{3}$
B	2	6	$\frac{2}{6} = \frac{1}{3}$
A	4	12	$\frac{4}{12} = \frac{1}{3}$
D	3	4	$\frac{3}{4}$

“Are you ready for more?” (online)

Can you make one moon cover another by changing its size? What does that tell you about its dimensions?



In what important way were the drink mixtures the same and different?

How could we tell using ratios that the drinks were the same and different?

In what important way were the moons the same and different?

How could we tell using ratios that the moons were the same and different?

Today's Goals

- ❑ I can use equivalent ratios to describe scaled copies of shapes.
- ❑ I know that two recipes will taste the same if the ingredients are in equivalent ratios.

Orangey-Pineapple Juice

Cool Down