LESSON 4.6a

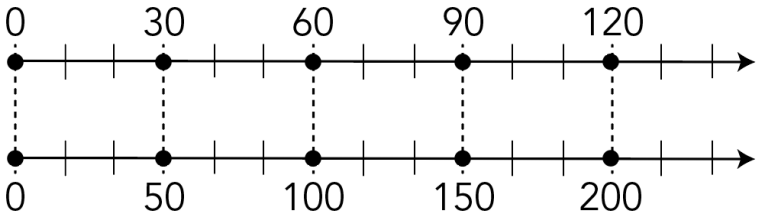
One is Not Enough

6.RP.1
6.RP.3a

Objective: Using and Comparing Ratio Representations

Warm-Up

Use the double number line to create a ratio table



x					
y					

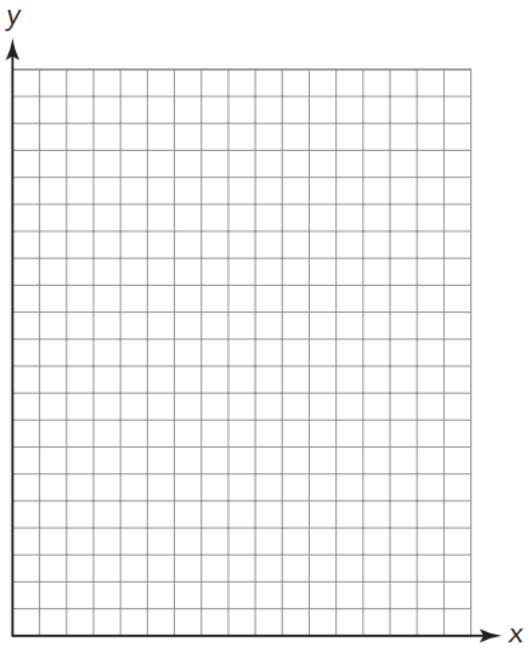
Create a scenario that fi ts the data on the double number line and ratio table. What ratio is associated with your scenario?

GETTING STARTED

Just-Right Ratios

Yana's dad is trying to make his own bread. But each time he tries, the bread is either too dry because it has too much flour or too runny because it has too much water.

Flour (cups)	Water (cups)	Dry / Runny
11	4	dry
3	5	runny
6	2	dry
10	9	runny
8	8	runny
10	4	dry
10	5	dry
12	9	runny
15	8	dry
5	4	runny



1. Use Xs to graph each attempt that was too dry. Use Os to graph attempts that were too runny.

2. Estimate a ratio that is "just right" and graph the ratio. Explain your reasoning.

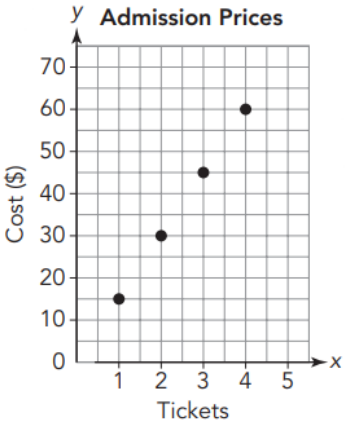
3. Compare your graph with your classmates' graphs. Did you all create the same graphs?

EXPLORE 1

Comparing Ratio Graphs

The adult ticket price for admission into the Rollerville Amusement Park is $15. The table and graph show the ratio number of adult tickets : cost.

Adult Tickets	1	2	3	4
Cost ($)	15	30	45	60



The Rollerville Amusement Park has different charges for students and pre-school age children. Student tickets are $10. Pre-school age children tickets are $5.

1. Copy and complete each table.

Student Tickets	1	2	3	4
Cost ($)				

Pre-School Tickets	1	2	3	4
Cost ($)				

2. In your graphing notebook plot each set of equivalent ratios. Use a Δ for the student tickets : cost ratios and a □ for pre-school tickets : cost ratios.

3. Draw three separate lines through the points that represent each ratio. What do you notice?

4. Do all the points on the line you drew make sense in this problem situation? Why or why not?

5. How can you tell by looking at the three lines which cost to ticket ratio is the highest and the lowest?

Name: _____ Date: _____ Class: _____

Homework HW

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One is Not Enough

Objective

Using and Comparing Ratio Representations

Add and Subtract Fractions With Unlike Denominators. Show ALL the work.

$\frac{1}{2} + \frac{3}{4}$ $\frac{1}{2} - \frac{3}{4}$

Multiply and Divide Fractions With Unlike Denominators. Show ALL the work.

$\frac{1}{2} \div \frac{3}{4}$ $\frac{1}{2} \times \frac{3}{4}$

Complete the ratio table.

Alberto is in charge of making lunch at a summer camp. He knows that 3 tuna casseroles will serve 15 campers. How many tuna casseroles should Alberto make to serve 35 campers?

Casseroles	1	3		
Campers		15	30	35

Shawna is mixing red and white paint to create a shade of pink to paint her room. After experimenting, Shawna decides that the perfect shade of pink is created by mixing 3 ounces of red paint and 1 ounce of white paint. How much red and white paint does Shawna need to make 1 gallon of pink paint? (1 gallon = 128 fluid ounces)

Pink Paint (oz)		128
Red Paint (oz)	3	
White Paint (oz)	1	

Calculate the surface area and the volume of the image below. Show ALL calculations