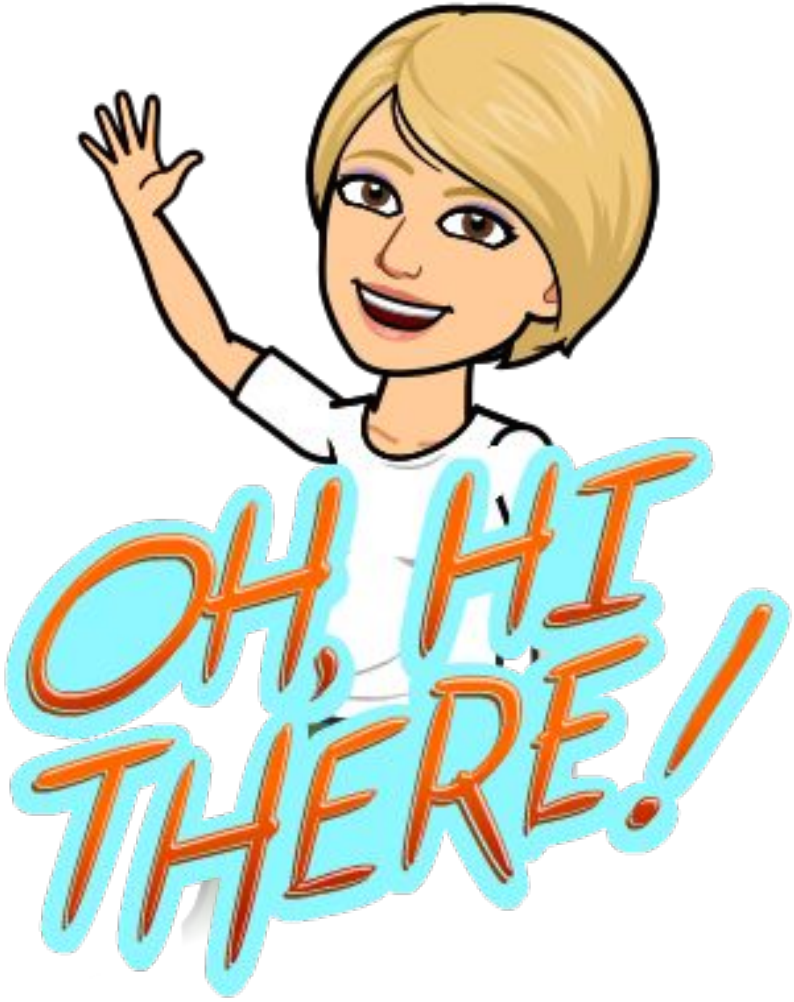
Today, you will need:

- calculator
- pencil
- notebook
- glue
- highlighter



Comparing Relationships with Tables

CCSS Standards: Building on	• 6.RP.A.3
CCSS Standards: Addressing	• 7.RP.A.2
CCSS Standards: Building towards	• 7.RP.A.1

Lesson 7

Let’s explore how proportional relationships are different from other relationships!

Today's Goal

- I can decide if a relationship represented by a table could be proportional and when it is definitely not proportional.

Adjusting a Recipe

Warm Up

A lemonade recipe calls for the juice of 5 lemons, 2 cups of water, and 2 tablespoons of honey.

Invent 4 new versions of this recipe:

- One that would make more lemonade but taste the same
- One that should make less lemonade but taste the same
- One that would have a stronger lemon taste
- One that would have a weaker lemon taste

Visiting the State Park

Activity 1

- 5 Practices

Entrance to a state park costs $6 per vehicle. Additionally, each visitor must pay $2.

What do you think the question is?

- ➔ Begin with Quiet Work Time. (5 min.)
- ➔ Let's discuss with a partner!

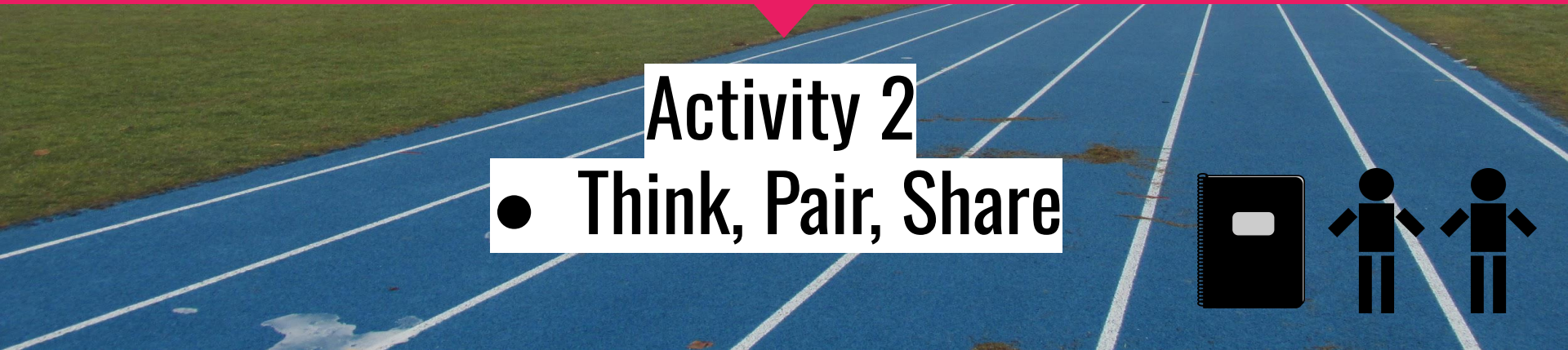
# of people in vehicle	total entrance cost in dollars
2	
4	
10	

Is this relationship proportional? Why or why not?

“Are you ready for more?”

What equation could you use to find the total entrance cost for a vehicle with any number of people?

Running Laps



Activity 2

- Think, Pair, Share

Begin working on your own. (5 min.)

Share your thinking as a team.

Is Han running at a constant pace? Is Clare?

Han's run:

distance (laps)	time (minutes)	minutes per lap
2	4	
4	9	
6	15	
8	23	

Clare's run:

distance (laps)	time (minutes)	minutes per lap
2	5	
4	10	
6	15	
8	20	

Can you represent either relationship with an equation?

Han's run:

distance (laps)	time (minutes)	minutes per lap
2	4	2
4	9	2.25
6	15	2.5
8	23	2.875

Clare's run:

distance (laps)	time (minutes)	minutes per lap
2	5	2.5
4	10	2.5
6	15	2.5
8	20	2.5

Are the pairs of values in the table for Clare's run still values of a proportional relationship if we calculate **laps per minute** instead of **minutes per lap**?

Clare's run:

distance (laps)	time (minutes)	minutes per lap
2	5	2.5
4	10	2.5
6	15	2.5
8	20	2.5

Today's Goal

- I can decide if a relationship represented by a table could be proportional and when it is definitely not proportional.

Apples and Pizza

Cool Down