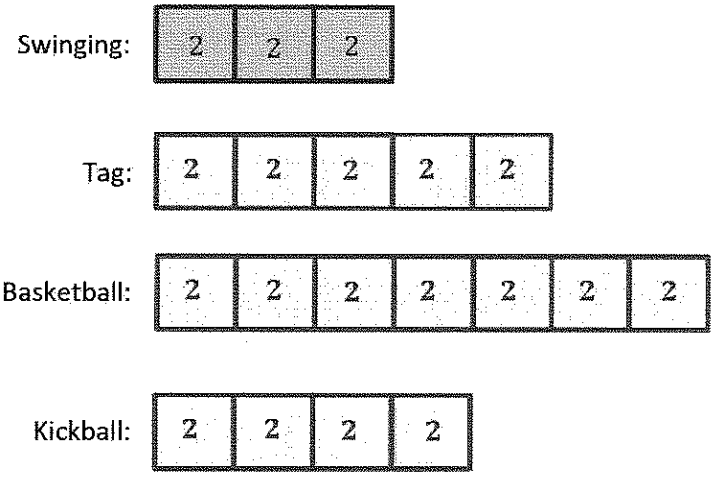
G3-M6-Lesson 2

1. Lenny surveys third graders to find out their favorite recess activities. The results are in the table below.

Favorite Recess Activities	
Recess Activity	**Number of Student Votes**
Swinging	6
Tag	10
Basketball	14
Kickball	8

Draw units of 2 to complete the tape diagrams to show the total votes for each recess activity. The first one has been done for you.

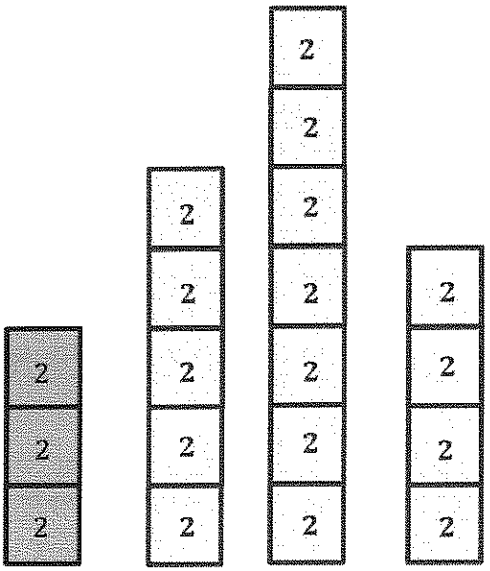


I can do my best to draw all of my units the same size because they all represent the same thing, 2 students. I can also make sure to line up each tape diagram with the one above it.

When I make my units the same size and line up my tape diagrams, it makes it easy to compare the number of votes for each activity. I can easily see that most third graders picked basketball as their favorite recess activity.

2. Complete the vertical tape diagrams below using the data from Problem 1.

a.



I can rotate my tape diagrams from Problem 1 to create vertical tape diagrams. I still need to make sure my units are the same size and that the tape diagrams are lined up with each other.

b. What is a good title for the vertical tape diagrams?

A good title for the vertical tape diagrams is Favorite Recess Activities.

I can use the title from the table in Problem 1 as the title for the vertical tape diagrams because they both show the same information, just in different ways.

c. Write a multiplication sentence to show the total number of votes for basketball.

$7 \times 2 = 14$

There are 7 units of 2 for basketball, so I can represent the total with the multiplication sentence $7 \times 2 = 14$.

d. If the tape diagrams in Problem 1 were made with units of 1, how would your multiplication sentence in Problem 2(c) change?

If my tape diagrams were made with units of 1 instead of 2, the multiplication sentence for Problem 2(c) would be $14 \times 1 = 14$ because there would be 14 units of 1.

Since the value of each unit is less, I need a greater number of units to represent the same total.