Math MileMarkers®

Charlie in Fraction City

RETELL, RECREATE AND TALK ABOUT MATH ACTIVITY

Name _____

1

2

Hi, my name is _____. I am a new Whole Club President. I just arrived at the United Federation of Shapes (UFS) Fair. I am searching for new fractional members for my whole club.

I am seeking members that are of equal measure, and together fit perfectly within the finite space of my meter.

3

4

A group of similar shapes arrived at my tent early in the day. The bell rang when they jumped into my meter.
My whole was divided into _____ equal parts (denominator).
The number of pieces that made up this group was _____ (numerator).
The fractional representation was _____ which equals one whole.
_____ = 1

Next, a group of shapes jumped into my meter. They fit perfectly in my space, but these shapes were not of equal measure. Unfortunately, they did not represent a fraction of my whole.

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5

Two equivalent fraction teams jumped into my meter late in the day.
The 1st team represented _____ out of _____ pieces.
The 2nd team represented _____ out of _____ pieces.

6

Whole Club Presidents use visual models, area models and mathematical strategies to prove when fractions are equivalent.
This is how I decided to prove that they were equivalent fractions.

7

At the end of the day, I met another whole club president. This whole looked completely different than mine.
Our members could never be part of the same club.

8

I love being a Whole Club President. Every fractional piece will tell you that it is great to be a fraction that is part of a whole.

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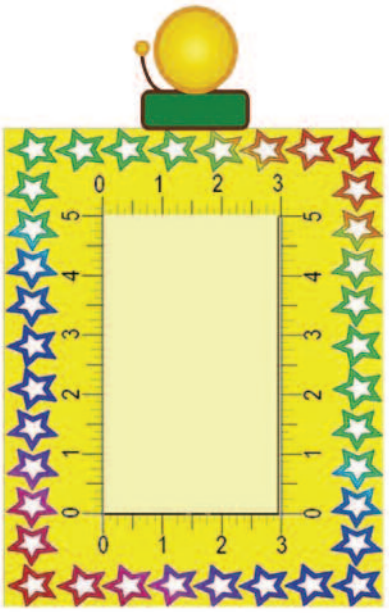
A powerful way to use Charlie in Fraction City is to encourage children to retell and recreate Charlie's story using a self-created shape made from paper or foamboard. Children can name and design their new "whole club president" character. They decide on the actual dimensions and play out the story exploring the importance of accurate measurement, area models, equivalencies and key vocabulary that includes whole, fraction, numerator and denominator. It is best to create four identical shapes so they have extras to cut up and explore with.

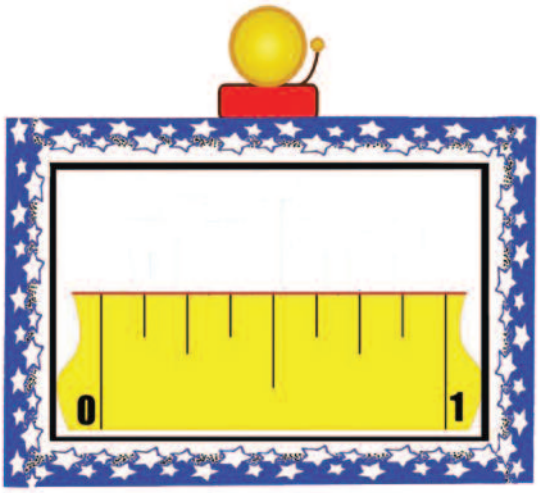


Don't be surprised if children decide to adjust the measurement of their shape to make telling the story easier. Some children may decide to challenge themselves by using dimensions that will allow them to apply their knowledge of decimals. These rich experiences, and the discussions that ensue, allow children to navigate their own learning while exploring concrete, representational and abstract opportunities that promote understanding.

DIRECTIONS

Use the storyboard provided to Retell, Recreate and Talk with Friends about Math. Illustrate the story using the template provided or act out the story using the text from the storyboard as a script.

Provide materials that will allow children to play with shapes as they retell the story. Card stock works well. The goal is to provide a task that will allow children to interact with the key math concepts presented in Charlie in Fraction City.



Encourage children to use accurate vocabulary when interacting with the story and discussing it with friends.

Have FUN!