



Soccer Dot Plots Fractions

Grade 3

Line Plots

4 levels

Probing Questions

- How do you know when to kick the ball?
- How do you know where to place the dot on the number line?
- What does it mean when there are two dots above the same number?

What's Important Here?

In this introductory game, students are generating line plots based on their own data. Levels 2-4 require students to record their data on a scaled line plot.

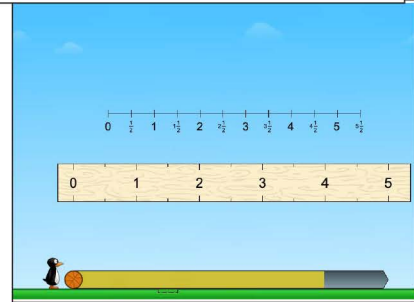
What do the Standards Say?

Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.

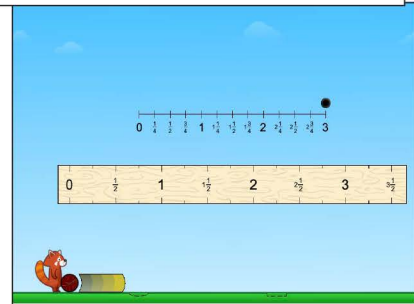
ST Math.

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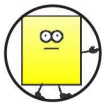
Students must watch the arrow to decide when to kick the ball.



The division of the ruler changes from level to level.



Line Plots - 1



Dot Plot Dimension Intro

Grade 3

Line Plots

4 levels

Probing Questions

- What do you notice about the rectangle people?
- What do you see on the line (dot) plot?

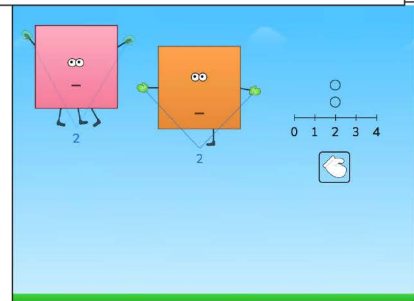
Supporting Struggling Students

Clicking on the attribute icons underneath the line plot makes that attribute appear on the rectangle people. Ask students to compare the those objects to the data on the line plot.

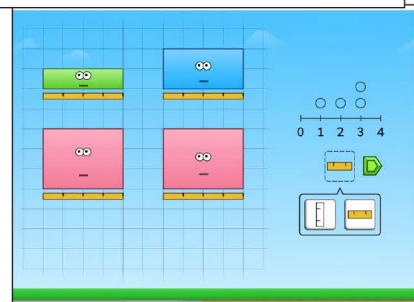
Uncover the Thinking

Ask students to share how they're solving the puzzles. Are they looking at the graph or the rectangles first? How do they eliminate choices? How do they describe the attributes?

In Levels 1-2, attributes appear when you click on the mitten or boot.



In Level 3 click on the ruler to move it to the rectangles.



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Line Plots - 2