

What if You Had Kangaroo Feet?



Task

How much would your foot have to grow to be the same size as a kangaroo foot?

Standards and Learning Targets

Standard 1.MD.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.

Standard 2.MD.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

Learning Target: Measure the length of an object and make a comparison

Lesson Outline

Anticipate Strategies: Before you begin this lesson, be sure to anticipate the strategies your students might use or the misconceptions they might have about measuring using the [Picture Book Problem Monitoring Chart](#).

Launch: Read aloud *What if You Had Animal Feet* by Sandra Markle. Ask students to think about what they notice or wonder that could be answered using math.

Gather student ideas. Then propose the following problem: How much would your foot have to grow to be the same size as a kangaroo foot?

Discuss what students know and what they need to know in order to answer the question.

[What if you had animal feet? Recording Sheet](#)

Explore:

- 1st Grade: Provide students with inch tiles to measure their feet. Having students trace their foot on paper first will help generate more accurate measurements.
- 2nd Grade: Provide students with a variety of tools to use to measure their feet, allowing them to select the one they think is most appropriate.

Summarize: Share solutions, being sure to discuss why the answers are a little different.

- 1st Grade: discuss the importance of lining the tiles up with no gaps or overlaps. Talk about strategies used to find the difference between their foot and the kangaroo's foot.
- 2nd Grade: discuss the importance of choosing an appropriate tool.

Extension Ideas:

- Find someone in the school with a larger foot and make a pattern of it for students to measure and find the difference.
- Make other comparisons with different animals in the book.

Thank you for using one of our Picture Book Tasks! We would love to know more about your students' strategies when solving the problem, ideas you had for improving the task, and other math problems you and your students noticed or wondered about after reading the book.

Please complete our [Picture Book Task Survey](#) so that we can learn more about your experience teaching, how students solve problems, and improve our Picture Book Task Bank.