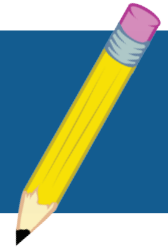




Overruled!

Learner Guide



Watch the animation, *Overruled!*, and complete these activities. The animation and an instructor guide are available on iTunes U (search "Math Snacks") and at mathsnacks.org

The official for the kingdom who is in charge of measuring made the following table comparing the number of teacher feet to student feet.

Student	Teacher
3	1
5	2
7	5

1A. Is the official doing a good job? Why or why not?

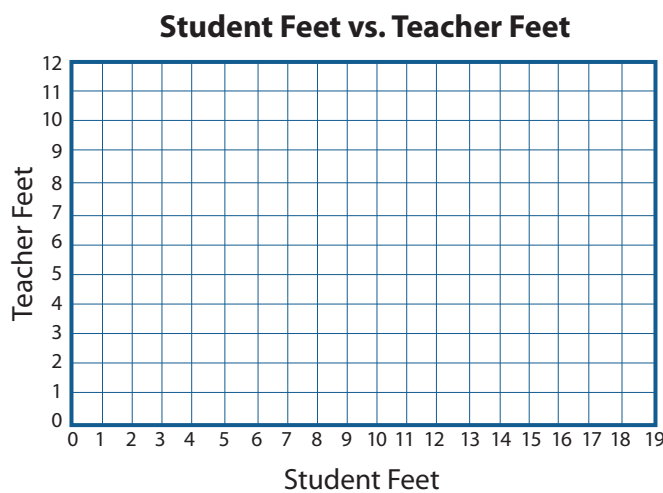
1 Teacher's Foot 2 Student's Feet



B. If the official was doing his job correctly, what would the table look like?

Student	Teacher

C. Graph your table of foot measurements below.



D. How can you tell if someone is doing a good job of measuring feet?

The queen decided that she wanted a new royal purple banner to fly over the new bridge.

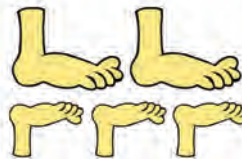
2. The banner will require 6 queen's feet of purple silk fabric. By looking at the chart, can you tell how many duke's feet of silk will be needed for the banner?



Queen's Feet	Duke's Feet
3	2
4	
6	

In the fictional kingdoms of Kingopolis and Queentopia, engineers had to convert king's feet to queen's feet, and vice versa, to build a bridge between the two countries. They had to know that 2 queen's feet = 3 king's feet.

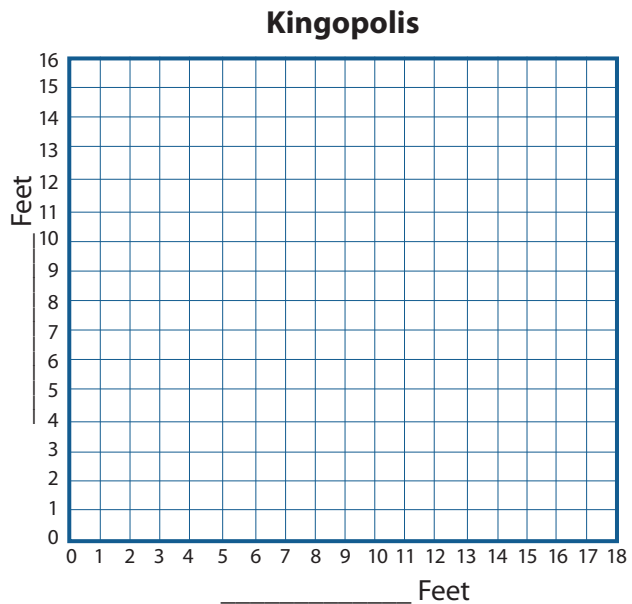
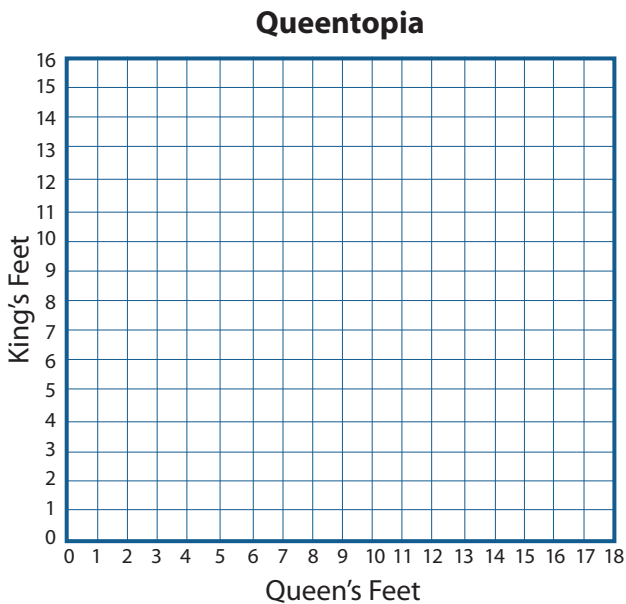
2 Queen's Feet



3 King's Feet



3. Fill in the graphs and charts so that people in the two kingdoms can easily convert one form of measurement to the other.



Queen's Feet

A. King's Feet

1	
2	3
3	
4	6
5	
10	

King's Feet

B. Queen's Feet

1	
2	
3	2
4	
5	
10	