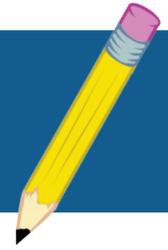




# Overruled!

## 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](http://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?

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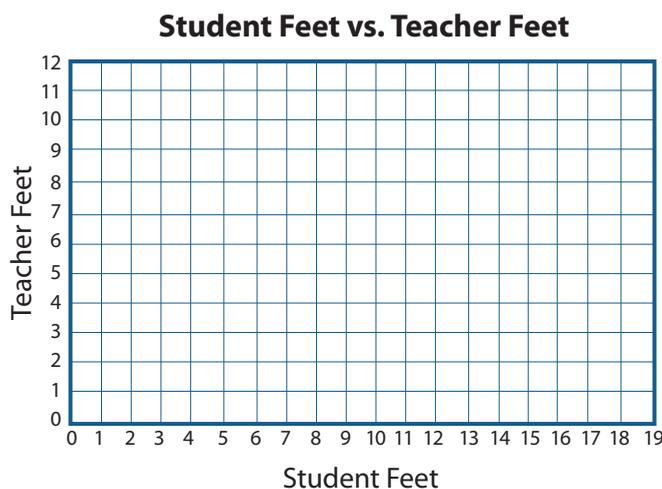
1 Teacher's Foot      2 Student's Feet



### 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?

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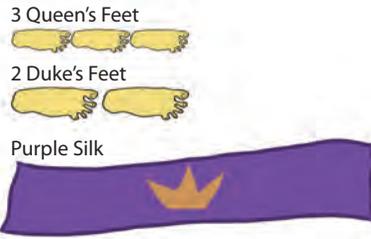
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The queen decided that she wanted a new royal purple banner to fly over the new bridge.

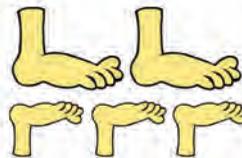
**2. The banner will require 6 queen's feet of purple silk fabric. By looking at the chart, can you tell how many duke's feet of silk will be needed for the banner?**



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.

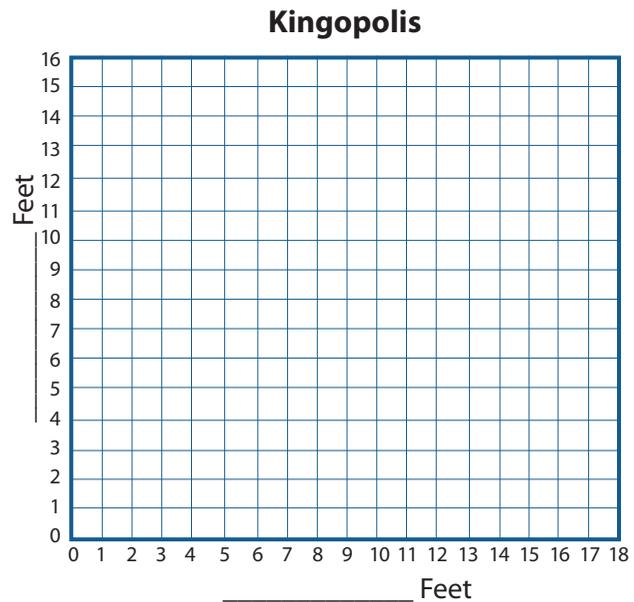
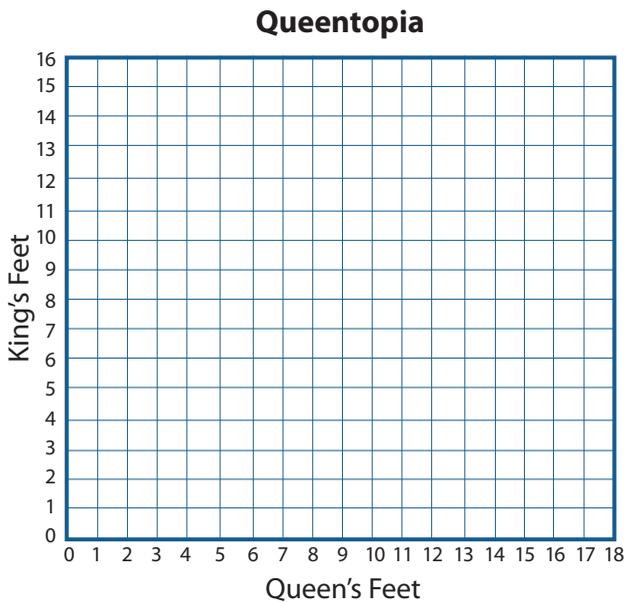
**2 Queen's Feet**



**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	