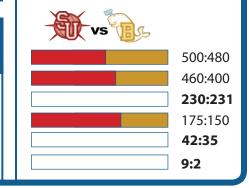


Atlantean Dodgeball Learner Guide

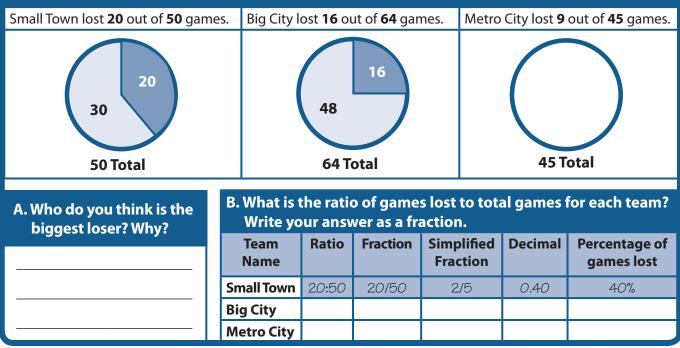
Watch the animation, *Atlantean Dodgeball*, and complete these activities. The animation and an instructor guide are available on iTunes U (search "Math Snacks") and at **mathsnacks.org**

- 1. In the Atlantean dodgeball tournament, both teams had lost about half of their members going into the final round. The Sea Urchins' coach looked at the team sizes of 500 and 480 and was happy that the teams were still fairly evenly matched (close to a 1:1 ratio). The Belugas' coach was upset because the Sea Urchins had 20 more players (a 20-player difference).
- A. Fill in the empty bar graphs to estimate the ratios of Sea Urchins to Belugas as the score changes during the tournament.



B. A newspaper reports that the final ratio of the tournament was 2:9. Are they correct? Why or why not?

2. Here are three pie charts that show wins and losses as parts of the total games played. Fill in the empty circle with the ratio of wins to losses for Metro City.



Math Snacks Atlantean Dodgeball Student Learner Guide

http://www.mathsnacks.org

3. You and your friend, Joe, are arguing about which baseball team is the best. Big City's baseball team, Joe's favorite, had 48 wins and 16 losses for the season. You think your team, Metro City, has a better record because it lost fewer games. Joe thinks his team has a better record because they won more games.



Try to settle the argument by filling out the table below.

Team	Games	Wins	Losses	Win to Loss Ratio	Wins to Total Ratio	Losses to Total Ratio
Small Town	50	30	20	30:20	30:50	
Big City	64	48	16			
Metro City	45	36	9			

A. How are the ratios of Win:Loss, Wins:Total, and Losses:Total related?

B. Use one or all of these ratios to decide which team has the best record for the season. Explain your answer and show your work.

ť	9		
	The second	N N	

4. 9:1 is the ratio of Sea Urchin players to Beluga players. Is this a part to part or part to whole ratio?

A. Describe how this ratio can be represented in fraction form.



© 2012, NMSU Board of Regents. NMSU is an equal opportunity/affirmative action employer and educator. "Math Snacks" materials were developed with support from the National Science Foundation (0918794). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.