

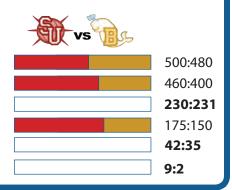
Atlantean Dodgeball Learner Guide



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

A. Fill in the empty bar graphs to estimate the ratios of Sea Urchins to Belugas as the score changes during the tournament.



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.

Small Town lost 20 out of 50 games.	Big City lost 16 out of 64 games.	Metro City lost 9 out of 45 games.
20 30 50 Total	16 48 64 Total	45 Total

- A. Who do you think is the biggest loser? Why?
- B. What is the ratio of games lost to total games for each team? Write your answer as a fraction.

Team Name	Ratio	Fraction	Simplified Fraction	Decimal	Percentage of games lost
Small Town	20:50	20/50	2/5	0.40	40%
Big City					
Metro City					

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?
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В.	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.

4	9	1	
	7 7	7 7	

4. 9:1 is the ratio of	f Sea Urchin pla	iyers to Belu	ıga players. Is
this a part to par	rt or part to wh	ole ratio?	

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