

Name: _____

Period: _____ Date: _____

MAKE THE DREAM TEAM

You are the head of a basketball team in the NBA. Your top three best starters are injured and not available to play in your next game. It is now your task to look at the statistics provided, and decide which five players you would choose to start the game. To do this, you will have to take into account the statistics of the players you have left on your team. Do you want a player who misses all of their free-throw points, but sinks every three-point shot they attempt? The most shots attempted on the court are worth two points and called field goals. Which of your players make these shots most often?

The numbers provided show the amount of shots they've made out of the total shots they've attempted. Using the information on Manu, Tim, and Tony, compare the star players of the San Antonio Spurs and answer the questions together as a class.

Player	Free Throws	Field Goals (2 pts)	Three-Pointers
Tim Duncan	71%	49.5%	0%
Tony Parker	4/5	9/20	1/3
Manu Ginobili	0.857	0.448	0.338

1. Who has the best free-throw statistic? How do you know?
2. Which player makes the most number of their two-point shots?
3. What can you assume about the players according to their 'three-point' statistic?

4. **From this information**, who do you think is the most valuable player? Why? Use your math to justify your answer.



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MAKE YOUR OWN DREAM TEAM!

Take what you've learned this week and build your own Dream Team.



1. Using the statistics given on the following players answer the Thinking Questions on the next page
2. Analyze the statistics to decide who you want on your team.
3. When you've decided on your 5 players, fill out the table, include notes on why you chose these players.
4. Use your table as an outline to write a paragraph about your team. Make sure to **justify** your choices!
5. When you have finished, find another team in the class and go head to head. Analyze the differences and discuss whose team might win. Write a paragraph defending your team against your opponent's team. **THERE IS NOT JUST ONE RIGHT ANSWER!!**

Player	Free Throws	Field Goals	Three-Point
James Anderson	0.50	$\frac{11}{25}$	50%
DeJuan Blair	$\frac{1}{2}$	63%	0.0
Matt Bonner	60%	0.313	$\frac{17}{50}$
Boris Diaw	0.75	$\frac{13}{25}$	0.5
Danny Green	$\frac{7}{10}$	41.8%	0.345
Stephen Jackson	0.933	$\frac{21}{50}$	60.5%
Kawhi Leonard	81.3%	0.50	$\frac{9}{20}$
Patty Mills	0%	$\frac{11}{20}$	0.600
Gary Neal	$\frac{21}{25}$	0.476	44.4%
Tiago Splitter	0.372	63.8%	$\frac{1}{3}$

Statistics adapted from www.nba.com/Spurs playoff stats, June 2012

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Thinking Questions

1. The NBA is hosting a free-throw competition for charity, which two players would you send?
2. List the top 5 players with the highest field goal statistic in order from least to greatest.

3. Which two players have the same three-point statistic?

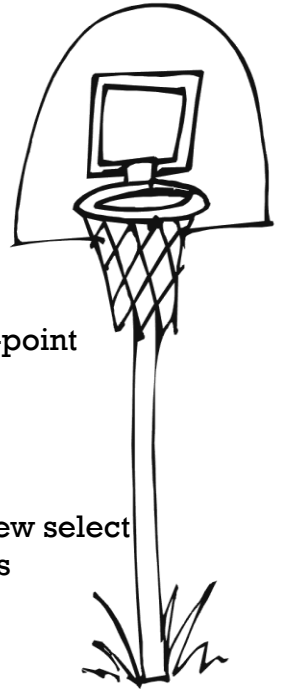
4. In comparison with the rest of their own statistics, which players' two-point statistic is higher than their three-point and free-throw percentages?

5. Greg Papovitch is inviting a famous free-throw coach to work with a few select players on the team. Which three players might benefit most from this workshop?

6. In order from least to greatest, give the top 4 three-point shooters on the roster.

7. Who makes fewer than half of their field goals attempted?

8. Is there any single player who is in the top five players for every category?



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Who do you want on your team?

Player	Why??

Persuade the Head Coach in a paragraph why he should choose these players, make sure you use your statistics to justify your choices:

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Now, put your team up against a classmate's team! Classmate: _____

Your Team Players	Their Team Players (may overlap)

Evaluate the statistics you have on these players and discuss the choices you made. Write a short paragraph explaining why your team would win a game against the team of your classmate:



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Rubric for MAKE YOUR OWN DREAM TEAM!

	Needs Improvement	Approaching Expectations	Meets Expectations	Exceeds Expectations
Thinking Questions (40%)	(0-10pts) All questions are unanswered or incorrect.	(11-25pts) Most questions are answered, however, most are incorrect.	(26-35pts) All questions are answered, most are correct.	(36-40pts) All questions are answered and all are correct.
Calculations (10%)	(0-2pts) Calculations are not included	(3-5pts) The calculations are included, however the work is not provided or there are multiple errors.	(6-8pts) Calculations are included and correct with no more than five minor errors.	(9-10pts) All calculations are correct with no more than two minor errors.
Justification/ Paragraph (40%)	(0-10pts) The paragraph is not included or does not explain the purpose of the chosen players.	(11-25pts) The paragraph is included but lacks effort and does not include mathematical justification of why the players were chosen.	(26-35pts) The paragraph includes mathematical justification of why the players were chosen.	(36-40pts) The paragraph includes clear reasoning behind the team chosen. It is well thought-out and edited.
Game Against Classmate Paragraph (10%)	(0-2pts) The paragraph is not included or is incomplete.	(3-5pts) The paragraph lacks clear mathematical justifications.	(6-8pts) The paragraph includes clear and reasonable mathematical justifications.	(9-10pts) The paragraph is convincing that the student believes and supports their decision.