

# THE ELIMINATION

Round	# Teams Eliminated	Fraction of Total Teams	Decimal Amount of Total Teams	Percent of Total Teams
First				
Second				
Third				
Fourth [Sweet Sixteen]				
Fifth [Elite Eight]				
Sixth [Final Four]				

1. Find the number of teams eliminated after each round.
2. What fraction of teams is eliminated after each round? Record your data in the table.
3. Change each fraction to a decimal and percent.
4. Do you see any patterns in the way teams are eliminated? Describe what you notice.

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5. Use this information to determine how many more teams are needed if one more round were added to the tournament. \_\_\_\_\_

6. Describe the pattern in the fraction of teams eliminated.

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7. Use this information to determine what fraction of the teams would be eliminated if two more rounds were added to the tournament.

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8. Add all the fractions in your table together. How many more rounds will it take until they equal 1? Explain your answer.

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9. Use the information you found in #8 to predict the sum of the decimal and percent columns. Justify your answers.

Decimal sum prediction \_\_\_\_\_

Justification: \_\_\_\_\_

Percent sum prediction \_\_\_\_\_

Justification: \_\_\_\_\_

10. Find the sum of the decimal column. Show your work below.

11. Find the sum of the percent column. Show your work below.

12. How do each of these answers (#10 and #11) compare to your predictions?