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QUICK FACTS

- *The 65 team tournament has only existed since 2001. Prior there were 64 teams from 1985-2000. Before that the tournament underwent many changes and grew variably from 8 teams in 1939 to 53 teams in 1984 before becoming the tournament we know today.*

- *1/6 of the money made from the tournament goes directly to the schools. 1/3 goes to the schools based on scholarships they give out. 1/2 goes to conferences based on how well they did in the six previous men's basketball tournaments. In 2007 the Big East received over $14.85 million. The eight conferences that didn't win a first round game in those six years even received over $1 million each.*

- *Only 6 teams since the seeding system have been ranked #1 in a season poll and gone on to win the tournament: North Carolina (1982), Duke (1992), UCLA (1995), Michigan State (2000), Duke (2001), Florida (2007).*

- *Since the NCAA started seeding teams in 1979, only once have all four #1 seeds made it to the Final Four: (2008) Kansas, NC, Memphis, UCLA.*

- *At least one #1 seed has made it to the Final Four in every year except:*
  - *1980: Louisville #2, Iowa #5, Purdue #6, UCLA #8*
  - *2006: UCLA #2, Florida #3, LSU #4, George Mason #11*
  - • *2011 UConn (3), Butler(8), Kentucky (4), VCU(11)*
- *The only team to beat 3 #1 seeds in a single tournament was #4 Arizona in 1997. This is the most possible 1 seeds that can be played.*

- *2009 marked the first time all 12 of the #1, 2, and 3 seeds made it to the Sweet 16.*

- *No team as a #16 ~~seed~~ has ever defeated a #1 seed.* 2018   #16 UMBC beat #1 Virginia

- *The #12 seed has beaten the #5 seed 44% of the time.*

- *The smallest margin of victory in a championship game: 1 point*
  - *One of those: Michigan 80, Seton Hall 79 in OT (1989)*

- *Biggest margin of victory in a championship game: 30 points*
  - *UNLV 103, Duke 73 (1990)*

- *UCLA, Michigan State and Duke are the only teams to ever win every game in the tournament by 10 points or more on their way to a championship. Michigan State accomplished this twice (1979, 2000).*

- *As a tournament ritual, the winning team cuts down the net at the end of the regional championship game as well as the national championship game.*

- *Since 1986, the winning team is traditionally given the floor from the championship venue to keep.*

About brackets…

- *There are **9,223,372,036,854,775,808** possible brackets. (over 9.2 quintillion)*
  - *If one bracket per second was filled out it would take **292 trillion years** to fill out all possible brackets (that's 20 times longer than the universe has existed).*
  - *If all brackets were stacked on top of each other (on standard paper), the pile would reach **from the moon and back over 1.1 million times**.*
  - *Even if a person had a 90% chance of winning each game they picked, their odds would still be **763 to 1** against picking a perfect bracket.*

Below you will find a table that shows all teams that have won a national title through 2008. Use this information to answer the questions that follow.

School	Titles	Years
Arizona	1	1997
Arkansas	1	1994
California	1	1959
CCNY	1	1950
Cincinnati	2	1961, 1962
Connecticut	2 → 4	1999, 2004, 2011, 2014
Duke	3 → 5	1991, 1992, 2001, 2010, 2015
Florida	2	2006, 2007
Georgetown	1	1984
Holy Cross	1	1947
Indiana	5	1940, 1953, 1976, 1981, 1987
Kansas	3	1952, 1988, 2008
Kentucky	7 → 8	1948, 1949, 1951, 1958, 1978, 1996, 1998, 2012
La Salle	1	1954
Louisville	2 → 3	1980, 1986, 2013
Loyola (Chicago)	1	1963
Marquette	1	1977
Maryland	1	2002
Michigan	1	1989
Michigan State	2	1979, 2000
North Carolina	4 → 5	1957, 1982, 1993, 2005, 2017
North Carolina State	2 → 3	1974, 1983, 2009
Ohio State	1	1960
Oklahoma State	2	1945, 1946
Oregon	1	1939
San Francisco	2	1955, 1956
Stanford	1	1942
Syracuse	1	2003
UCLA	11	1964, 1965, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1975, 1995
UNLV	1	1990
Utah	1	1944
UTEP (Texas Western)	1	1966
Villanova	1 → 3	1985, 2016, 2018
Wisconsin	1	1941
Wyoming	1	1943
Virginia	1	2019

Lowest Seed to ever win: 8- Villanova (1985)

6. Of all teams that have won a title, find:
   a. The mean number of titles won.
   b. The median number of titles won.
   c. The mode.
   d. The range.
   e. The standard deviation.
   f. Are there any outliers? Justify with calculations. (More than 3 S.D. from the mean)

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7. Which one of these quantities in a – e give the best representation of the data? Explain.

8. Make a box plot of the data in the space below. (Don't forget to consider and plot the outliers!)

min   Q1   Med   Q3   Max