

You Are So Significantly Cool

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- 1. What is sampling variability?
- 2. What are the characteristics of a distribution?
- 3. What is an extraordinary observation?
- 4. Is this win/loss record an outlier or is it biased?







(2/3) x (proportion pure of heart) = % "Yellow"

% cheaters = 1- proportion pure of heart



2. What are the characteristics of a distribution?



Spread

Shape

A reporter wishes to portray baseball players as overpaid. Which measure of center should he report as the average salary of major league players?

(A) Mean
(B) Median
(C) Mode
(D) Either the Mean or Median. It doesn't matter since they will be equal.

Which of the following is likely to have a mean that is smaller than the median?

- (A) Salaries of all professional baseball players
- (B) Prices of homes in a large city
- (C) Scores on a very difficult exam in which most get poor scores, but a few do very well
- (D) Scores on a very easy exam in which most get nearly perfect scores, but a few do very poorly

A histogram of the educational level (in number of years of schooling) of the adult populations of the United States would have which of the following characteristics?

I. SymmetryII. ClustersIII. Skewness to the left

(A) I and II(B) I and III(C) II and III(D) I, II, and III

What are your observations?

Subje ct	Gend er	Ht (in)	Foot (cm)	BPM 1	BPM 2	\$\$\$	Work	Moth er's age	Cell m/d
1	f	64	22	48	44	8	0	26	0
2	f	62	22	64	60	5	0	30	5
3	f	64	23	68	72	2	0	32	5
4	f	64	24	68	76	6	0	18	30



3. What is an extraordinary observation?



4. Is this win/loss record an outlier or is it biased?

A GAME OF DICE FOR TWO PLAYERS

