

Statistical Reasoning in Sports: Review for Final (Chapters 1–7)

1. The model we use for athletic *PERFORMANCE* is:

$$\text{PERFORMANCE} = \text{ABILITY} + \text{RANDOM CHANCE}$$

2. Give examples of 2 categorical variables and 2 numerical variables. For each variable, name at least two different ways to graph the distribution of the variable.

Categorical: Outcome of a game, outcome of a shot. **Graphs:** pie charts, bar charts.

Numerical: points scored, 100m sprint time. **Graphs:** dotplots, histograms, boxplots.

3. Suppose that a basketball player has the *ABILITY* to make 78% of his free-throws.

a) Explain what it means for the player to have an *ABILITY* of 78%.

If the player were to take many, many free-throws, he would make about 78% of them.

b) Which *PERFORMANCE* would be more surprising for this player, taking 10 shots and making 90% or taking 100 shots and making 90%? Explain.

It would be more surprising to make 90% in 100 shots, because with a larger number of attempts ($n = 100$) we would expect his *PERFORMANCE* to be closer to his *ABILITY* of 78%. In a small number of attempts ($n = 10$), it isn't that surprising to have a *PERFORMANCE* much better than his *ABILITY*.

c) In his games last week, the player only made 9 of his 17 free-throws. To see if this poor *PERFORMANCE* gives convincing evidence that his *ABILITY* to make free-throws has gone down, what hypotheses should we test?

H_0 : The player's *ABILITY* to make free-throws is still 78%

H_a : The player's *ABILITY* to make free-throws is less than 78%

d) What was this player's free-throw percentage in his games last week? Use this value as the test statistic.

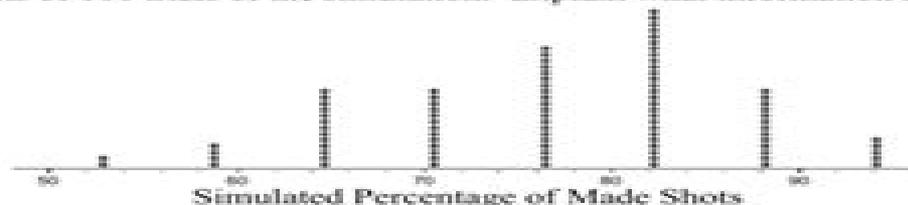
Test statistic: Percentage of made shots = $9/17 = 53\%$

e) Describe how to use random numbers to simulate the distribution of the test statistic, assuming that the player's *ABILITY* to make free-throws is 78%.

Let 1–78 represent a made free-throw and 79–100 represent a missed free-throw.

Randomly generate 17 numbers from 1–100 and calculate what percentage are between 1 and 78. Record this value on a dotplot and repeat many times.

f) Here are the results of 100 trials of the simulation. Explain what information is provided by the dotplot.



The dotplot shows the possible percentages of made shots in 17 attempts that could occur by *RANDOM CHANCE*, assuming that the player has an *ABILITY* of 78%.

Statistical Reasoning In Sports Test Answers

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