

Questionnaire

Name:

Major:

Year (1,2,3,4, Grad):

email address:

Part A

1. Best players

In your opinion, who is or was the greatest player in

(a) football?

(b) baseball?

(c) track and field?

(d) basketball?

2. Participation

What sports have you played (up to what level)? Any distinctions?

3. Best sports

(a) List the sports you're most interested in as an observer.

(b) Are there any that have yet to prove of interest? What is the dullest sport?

4. Rule changes

What rule change in sports would you like to see? Name the sport and the change you advocate.

Part B

1. Integral

Evaluate $A = \int_0^1 e^{at} dt$.

2. Expected value

Which of these are always true?

(a) $E(XY) = E(X)E(Y)$

(b) $E(X + Y) = EX + EY$

(c) $E\frac{X}{Y} = \frac{EX}{EY}$

3. Waiting time

What is the expected number of fair coin tosses required to get the first head? For example if the coin tosses are TTHTH..., then the number of tosses is 3.

4. Conditional Expectation

Let X and Y be independent and identically distributed. Find $E(X|X + Y)$.

Part C

Random comments and questions: