Homework **Beginning** to Learn

A. Short answer B. Empirical exercise

Start Over

Submission

A. Short answer

Learning about the DGP

Ouestion 1:

The key idea behind	is that one draw from a population does not depend on another.	
random sampling		
Correct!		

Question 2:

Because we generally do not know the underlying data-generating process, we try to from the data we observe.	it
infer	
Correct!	

Question 3:

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The frequentist approach to probability defines the probability of some event A as the number
of times it occurs out of an ____ number of random trials.
infinite
 Correct!
```

Question 4:

```
This idea of relative frequency converging to the true probability is an example of the _____.
law of large numbers
 Correct!
```

Question 5:

```
Because earnings distributions tend to be _____ right, the ____ distribution if often a good
model for earnings data.
skewed, lognormal
 Correct!
```

Question 6:

```
The _____ is the thing we want to learn about. An ____ is the thing we compute to learn about
it, which for a given set of data, gives us an _____.
 estimand, estimator, estimate
 Correct!
```

Question 7:

```
If E(estimator) equals the thing we want to learn about, we say that it is _____
unbiased
 Correct!
```

Question 8:

```
Sample selection may be a source of ____ if the data we have does not represent the
population we want to learn about.
bias
 Correct!
```

Continue

Digression on logs Question 9:

```
The natural log function is the inverse of the ____ function.
  exponential
  Correct!
Question 10:
```

The log of earnings is undefined if earnings equal _____.

```
0
  Correct!
Question 11:
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Log transformations help us talk about ____ differences or changes.

```
percentage
Correct!
Continue
```

Making Comparisons

Question 12: Comparing the earnings of women and men involves estimating the _____ expectation of _____

given _____.

```
conditional, earnings, gender
  Correct!
Question 13:
 The concept of a random variable's expected value is a ____ average of all the random
```

variable's possible ____.

```
weighted, outcomes
  Correct!
Question 14:
 Because we rarely know a random variable's distribution, we typically ____ its expected value
 using its ____ average.
```

estimate, sample Correct!

```
Question 15:
 The expected value of an indicator variable that takes on the values 1 and 0 is equivalent to the
       the random variable equals _____.
  probability, 1
```

Correct!

```
Question 16:
 The \_\_\_ says that the expected value of the CEF of, say, Y given X, is the expected value of Y.
  law of iterated expectations
  Correct!
```

Next Topic

Continue