University of Arkansas Statistical Methods 2019-10-08

Problem Set 1-1

Name:	
Signature:	
1. (a) (b) (c) (d)	(e)
2. (a) (b) (c) (d)	(e)
3. (a) (b) (c) (d)	(e)
4.	

- 1. Which of these are places in Arkansas?
 - (a) Hawksbill Crag
 - (b) Lazy River
 - (c) Whitaker Point
 - (d) Blue Mountain
 - (e) Flat-top Mountain
- 2. Which of the following R functions allows you a quick, overview of the data? Make sure you select all that apply.
 - (a) modify()
 - (b) str()
 - (c) summary()
 - (d) c()
 - (e) simulate()
- 3. The following are two vectors

X

[1] 2 4 6 8

у

[1] 1 2 3 4

What is the code that generates the following output?

- ## [1] 3 6 9 12
- (a) x/y
- (b) x + y
- (c) x * y
- (d) x y

0.842

- (e) 2 * x * y
- 4. 21 University of Arkansas pre-law students are taking the LSAT exam (the standardized exam for entry into law school) where the average LSAT score in the United States is 139 with a standard devation of 5. To be a top-ranked institution, the average student score must be in the in the top 99% of classes. What average score is needed for the University to be a top ranked school?

Below is R code for the problem that can be used to solve the problem.

```
qnorm(0.8, 0, 1) pnorm(139, 99, 5)
```

1.000

qnorm(0.99, 0, 1)

2.326

pnorm(99, 139, 5)

0.000