

STAT 200 Introduction to Statistics

Name _____

Final Examination: Spring 2016 OL4/US2

Instructor _____

Answer Sheet**Instructions:**

This is an open-book exam. You may refer to your text and other course materials as you work on the exam, and you may use a calculator.

Record your answers and work in this document.

Answer all 20 questions. Make sure your answers are as complete as possible. Show all of your work and reasoning. In particular, when there are calculations involved, you must show how you come up with your answers with critical work and/or necessary tables. Answers that come straight from calculators, programs or software packages will not be accepted. If you need to use software (for example, Excel) and /or online or hand-held calculators to aid in your calculation, please cite the source and explain how you get the results.

When requested, show all work and write all answers in the spaces allotted on the following pages. You may type your work using plain-text formatting or an equation editor, or you may hand-write your work and scan it. In either case, show work neatly and correctly, following standard mathematical conventions. Each step should follow clearly and completely from the previous step. If necessary, you may attach extra pages.

Record your answers and work.

Problem Number	Solution
1	Answer: (a) (b) (c) (d) (e) Justification:

2	Answer: (a) (b) (c) (d) Justification:																					
3	Answer: (a) <table><tr><th>Commute Time (in minutes)</th><th>Frequency</th><th>Relative Frequency</th></tr><tr><td>1 – 14.9</td><td>5</td><td></td></tr><tr><td>15 – 29.9</td><td>10</td><td></td></tr><tr><td>30 – 44.9</td><td></td><td>0.20</td></tr><tr><td>45 – 59.9</td><td>20</td><td></td></tr><tr><td>60 or above</td><td></td><td></td></tr><tr><td>Total</td><td>50</td><td></td></tr></table>	Commute Time (in minutes)	Frequency	Relative Frequency	1 – 14.9	5		15 – 29.9	10		30 – 44.9		0.20	45 – 59.9	20		60 or above			Total	50	
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30 – 44.9		0.20																				
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	(b) (c) Work for (a) and (b):
4	Answer: (a) (b) (c) Justification :
5	Answer: (a) (b) Work for (b):

6	Answer: (a) (b) Work for (b):
7	Answer: (a) (b) Work for (a) and (b):
8	Answer: (a) (b) Work for (a) and (b):
9	Answer: Work:

10	Answer: (a) (b) Work for (b) :
11	Answer: (a) (b) Work for (a) and (b):
12	Answer: (a) (b) Work for (a) and (b):

13	Answer: Work:
14	Answer: Work:
15	Answer: (a) . (b) (c) (d) Work for (b) and (c):
16	Answer: (a) (b) (c) (d)

	Work for (b) and (c):
17	Answers: (a) (b) (c) (d). Work for (b) and (c):
18	Answer: (a) (b) (c) (d) Work for (b) and (c):

	(c) (d) Work for (a), (b) and (c)
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