

# Math 221: Basic Statistics Exam # 3A

Week #15

Name: \_\_\_\_\_

**INSTRUCTIONS:** You may use a calculator for this exam and a letter-sized study sheet with information written on a single side. **You must show all of**



(b) Construct a 99% confidence interval estimate for the population proportion  $p$ .

(d) Also use the values in parts (a) and (b) to determine the slope  $m$  and intercept  $b$





(b) Construct a 90% confidence interval estimate for the population proportion  $p$ .

(6) A factory engineer manages a machine that produces numerous items per hour. She believes that more than 1000 of these items are of acceptable quality. To demonstrate this, she counts the number of acceptable items

(d) Also use the values in parts (a) and (b) to determine the slope  $m$  and intercept  $b$

# Math 221: Basic Statistics Exam # 3M

Week #15

Name: \_\_\_\_\_

**INSTRUCTIONS:**



(b) Construct a 95% confidence interval estimate for the population proportion  $p$ .

(d) Also use the values in parts (a) and (b) to determine the slope  $m$  and intercept  $b$