

HW E6: Continuous Probability Distributions

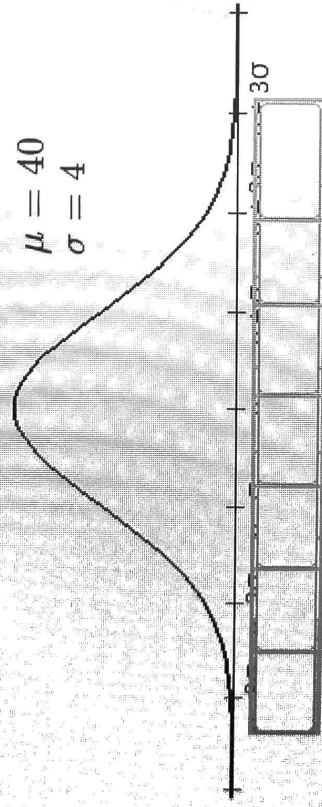
Score: 12/14 6/7 answered

● Question 5



The time to complete an exam is approximately Normal with a mean of 40 minutes and a standard deviation of 4 minutes.

The bell curve below represents the distribution for testing times. The scale on the horizontal axis is equal to the standard deviation. Fill in the indicated boxes.



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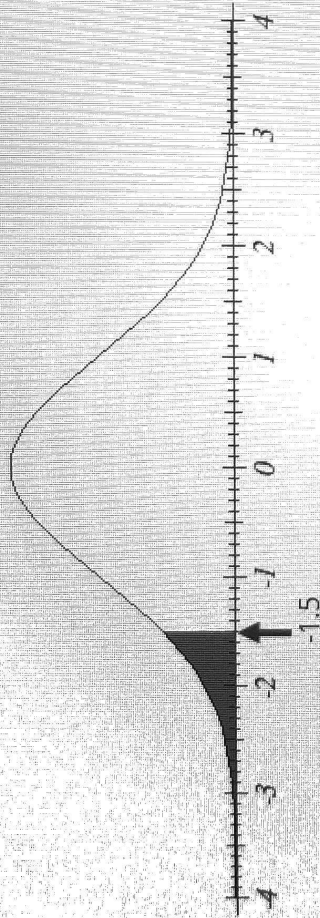


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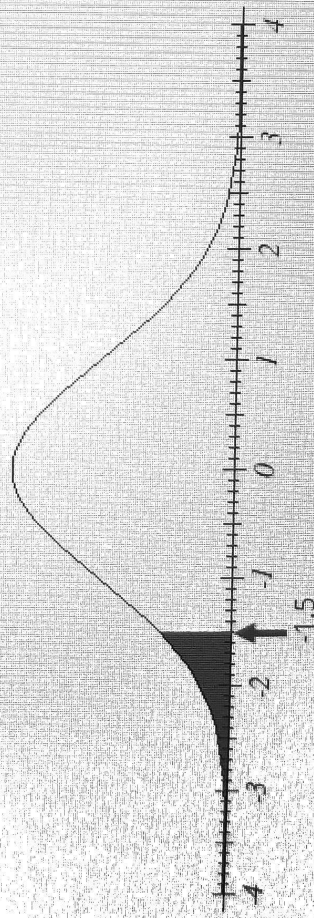
Sketch the region corresponding to the statement $P(z > -0.9)$

Shade: . Click and drag the arrows to adjust the values.



Sketch the region corresponding to the statement $P(-c < z < c) = 0.6$.

Shade: . Click and drag the arrows to adjust the values.



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Quiz 3 on Estimation

Score: 5/7 7/7 answered

X Question 7



Score on last try: **0 of 1 pts.** See Details for more.

You can retry this question below

Karen wants to advertise how many chocolate chips are in each Big Chip cookie at her bakery. She randomly selects a sample of 52 cookies and finds that the number of chocolate chips per cookie in the sample has a mean of 16.8 and a standard deviation of 2.6. What is the 80% confidence interval for the number of chocolate chips per cookie for Big Chip cookies? Enter your answers accurate to one decimal place (because the sample statistics are reported accurate to one decimal place).

13.5

X

$< \mu <$

20.1

X

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HW E10: Confidence Intervals for Proportions

Score: 16/22 11/11 answered

× Question 3



Score on last try: **0 of 2 pts.** See Details for more.

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You can retry this question below

Assume that a sample is used to estimate a population proportion p . Find the margin of error $M.E.$ that corresponds to a sample of size 344 with 40.1% successes at a confidence level of 90%.

$M.E. =$ %

Answer should be obtained without any preliminary rounding. However, the critical value may be rounded to 3 decimal places. Round final answer to one decimal place

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HW E10: Confidence Intervals for Proportions

Score: 16/22 11/11 answered

Question 4



Score on last try: 0 of 2 pts. See Details for more.

> Next question

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You can retry this question below

Giving a test to a group of students, the grades and gender are summarized below

	A	B	C	Total
Male	13	6	9	28
Female	7	16	5	28
Total	20	22	14	56

Let π represent the percentage of all male students who would receive a grade of B on this test. Use a 90% confidence interval to estimate p to three decimal places.

Enter your answer as a tri-linear inequality using decimals (not percents).

0.039 < p < 0.175

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HW E10: Confidence Intervals for Proportions

Score: 16/22 11/11 answered

× Question 5



Score on last try: **0 of 2 pts.** See Details for more.

> Next question

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You can retry this question below

You want to obtain a sample to estimate a population proportion. At this point in time, you have no reasonable estimate for the population proportion. You would like to be 98% confident that your estimate is within 0.5% of the true population proportion. How large of a sample size is required?

$n =$ 54103



Do not round mid-calculation. However, use a critical value accurate to three decimal places.

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Score on last try: **0 of 1 pts.** See Details for more.

> Next question

You can retry this question below

Giving a test to a group of students, the grades and gender are summarized below

	A	B	C	Total
Male	12	7	9	28
Female	16	19	11	46
Total	28	26	20	74

Let π represent the percentage of all male students who would receive a grade of A on this test. Use a 98% confidence interval to estimate p to three decimal places.

Enter your answer as a tri-linear inequality using decimals (not percents).

0.062

<

$p <$

0.262

>

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