

TEST 3 – STUDY GUIDE

Instructor: Émilie Richer (Department of Mathematics)

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	Topic	Suggested exercises
Binomial Distribution	<ul style="list-style-type: none"> • Define the properties of the binomial distribution • Compute binomial probabilities • Compute μ & σ for a binomial distribution 	<ul style="list-style-type: none"> • P.50-51 #1-14 (official text) • p. 148 guided practice 3.43 - 3.47 (alternate text)
Normal Distribution	<ul style="list-style-type: none"> • Properties of a normal distribution • Properties of the standard normal distribution 	<ul style="list-style-type: none"> • P.69 #1-12 (official text) • p.158-160 #3.1-3.16 (alternate text)
Normal Approximation to the binomial	<ul style="list-style-type: none"> • Know the conditions for when a normal distribution can be used to approximate a binomial one • Approximate binomial probabilities using the normal distribution 	<ul style="list-style-type: none"> • P.71 #16-24 (official text)
Central Limit Theorem & Sampling distribution of sample means	<ul style="list-style-type: none"> • Understand and explain the sampling distribution of sample means • Compute $\mu_{\bar{x}}$ & $\sigma_{\bar{x}}$ for the sampling distribution of sample means 	<ul style="list-style-type: none"> • class notes & examples • p.76 #1-8 (official text)
Confidence Intervals of μ	<ul style="list-style-type: none"> • Meaning of a confidence interval • Construct a confidence interval estimate of μ 	<ul style="list-style-type: none"> • class notes & examples • in-class assignment #3 • p.81 #1-8 (official text)
Hypothesis testing of μ	<ul style="list-style-type: none"> • Conduct a basic hypothesis test for μ 	<ul style="list-style-type: none"> • class notes & examples • p.85 #1-10 (official text)