

Chapter 6 Learning Objectives	Section	Related Example on Page(s)	Relevant Chapter Review Exercise(s)	Can I do this?
Compute probabilities using the probability distribution of a discrete random variable.	6.1	349	R6.1	
Calculate and interpret the mean (expected value) of a discrete random variable.	6.1	350, 352	R6.1, R6.3	
Calculate and interpret the standard deviation of a discrete random variable.	6.1	353	R6.1, R6.3	
Compute probabilities using the probability distribution of certain continuous random variables.	6.1	355, 357	R6.4	
Describe the effects of transforming a random variable by adding or subtracting a constant and multiplying or dividing by a constant.	6.2	365, 366, 368	R6.2, R6.3	
Find the mean and standard deviation of the sum or difference of independent random variables.	6.2	372, 373, 374, 377	R6.3, R6.4	
Find probabilities involving the sum or difference of independent Normal random variables.	6.2	380, 381	R6.4	
Determine whether the conditions for using a binomial random variable are met.	6.3	388	R6.5	
Compute and interpret probabilities involving binomial distributions.	6.3	390, 393, 396	R6.6	
Calculate the mean and standard deviation of a binomial random variable. Interpret these values in context.	6.3	399	R6.5	
Find probabilities involving geometric random variables.	6.3	406	R6.7	
*When appropriate, use the Normal approximation to the binomial distribution to calculate probabilities.	6.3	403	R6.8	

*This topic is not required for the AP® Statistics exam.