STA2023

1) When a die is rolled twice, there are possible outcomes.					
A) 18	в) 720	C) 6	D) 36		
2) A furniture manufacturer offers bookcases in 4 different sizes and 4 different colors. If					
every color is available in every size, then the total number of different bookcases is					
 A) 16	B) 8	c) 32	D) 4		
3) A business has seven locations to choose from and wishes to rank only the top three locations. How many different ways can this be done?					
A) 5,040	в) 420	C) 210	D) 840		
4) How many different ways can a teacher select 3 students from a class of 15 students to					
A) 455	B) 45	c) 1320	D) 2730		
5) How many different ways can a teacher select 4 students from a class of 17 students to					
each perform the same A) 57,120	e classroom task? B) 68	C) 17,160	D) 2380		
6) If the letters A, B, C, D, E, and F are to be used in a five-letter code, how many different codes are possible if repetitions are <i>not</i> permitted?					
A) 7,776	в) 1,296	C) 625	D) 720		
7) The Foreign Language Club is showing a movie marathon of subtitled movies. How many ways can they choose 5 from the 13 available?					
A) 154,440	в) 120	C) 1287	D) 1560		
8) A researcher wishes her patients to try a new medicine for depression. How many different ways can she select 5 patients from 45 patients?					
A) 120	в) 5400	C) 146,611,080	D) 1,221,759		
9) How many ways can a student select five questions from an exam containing 12 questions, if one of the five must be the last question?					
A) 7920	в) 330	C) 95,040	D) 40,320		
10) How many different ways can four people: Andy, Betty, Cindy, and Doug, sit in a row at the opera if Andy and Betty must sit together?					
A) 12	B) 24	C) 6	D) 18		

11) There are four instructors, nine assistant professors, and five associate professors in the	11)	
Math department. A committee of five is selected to choose new textbooks. How many	-	
are there in which a committee can be selected, if there must be one instructor, two		
assistant professors, and two associate professors on the committee.		
A) 1,440 B) 95		
12) A known soda brand comes in two varieties, regular and diet. If a researcher has 5 boxes	12)	

of each, how ma	ny ways can he select 2	boxes of each for a qu	ality control test?
A) 100	в) 50	C) 49	D) 10

Answer Key Testname: PRACTICE11

- 1) D 2) A 3) C 4) D 5) D 6) D 7) C 8) D 9) B 10) A 11) A 12) A