STA2023

1) A fair coin is tosse HHHT?	ed four times. What is the	ne probability that the sec	quence of tosses is	1)
A) 0.0625	в) 0.25	C) 0.038	D) 0.125	
2) A fair die is rolled two times. What is the probability that both rolls are 6?				
A) 0.167	В) 0.083	C) 0.0046	D) 0.028	
,	3) According to popular belief, 80% of adults enjoy drinking beer. Choose a group of 2 adults at random. The probability that all of them enjoy drinking beer is			
A) 0.640	в) 0.400	C) 1.600	D) 0.500	
4) Given eight students, three of whom are female, if two students are selected at random, without replacement, what is the probability that both students are female?				
A) $\frac{5}{14}$	B) $\frac{9}{64}$	C) $\frac{3}{28}$	D) $\frac{25}{28}$	
		probability that it comes	-	5)
A) 0.5177	B) 0.1667	C) 0.8333	D) 0.4213	
6) On an eight-question true-false quiz, a student guesses each answer. What is the probability that the student gets at least one of the answers correct?				6)
A) $\frac{255}{256}$	B) $\frac{1}{256}$	C) $\frac{7}{8}$	D) $\frac{1}{8}$	
7) Urn 1 contains 4 red balls and 3 black balls. Urn 2 contains 2 red balls and 3 black balls. Urn 3 contains 2 red balls and 6 black balls. If an urn is selected at random and a ball is drawn, find the probability it will be red.				7)
A) $\frac{2}{5}$	B) $\frac{1}{3}$	C) $\frac{1}{105}$	D) $\frac{57}{140}$	
8) In a second grade class containing 14 girls and 8 boys, 2 students are selected at random to give out the math papers. What is the probability that the second student chosen is a boy, given that the first one was a girl?				8)
A) $\frac{4}{11}$	B) $\frac{8}{21}$	C) $\frac{7}{11} \cdot \frac{2}{3}$	D) $\frac{7}{11} \cdot \frac{8}{21}$	

9) The Gift Basket Store had the following premade gift baskets containing the following combinations in stock.

9) _____

	Cookies	Mugs	Candy
coffee	5	18	11
Tea	15	14	7

Choose 1 basket at random. Find the probability that it contains tea given that it contains mugs.

A) ≈ 0.563	B) $pprox 0.200$	C) $pprox 0.778$	D) $pprox 0.438$
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10) A lot of 1000 components contains 200 that are defective. Two components are drawn at 10) random and tested. Let *A* be the event that the first component drawn is defective, and let *B* be the event that the second component drawn is defective.

Find $P(A \text{ and } B)$.			
A) 0.005	в) 0.1992	C) 0.0398	D) 0.2

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Answer Key Testname: PRACTICE10

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