chap	ter	3.1-3.5							
Nam	e								
MU	TI	PLE CHOICE. Cho	oose the one	alternative th	nat best comple	etes the state	ment or answer	s the question.	
Find		e indicated probable On a multiple cho question, what is	oice test, eacl	•	•	wers. If you	make a random g	guess on the first	
		A)7		B) 0		C)1		$D)\frac{1}{7}$	
	2)	A die with 6 sides	s is rolled. W	hat is the prol	bability of rollin	ng a number	less than 5?		
		Λ) $\frac{2}{3}$		B) 4		C) $\frac{1}{6}$		D) $\frac{5}{6}$	
	3)	A bag contains 4 is bag, what is the p			es, and 5 green	marbles. If a	marble is randor	nly selected from th	e
		A) $\frac{1}{4}$		B) $\frac{1}{3}$		C) $\frac{1}{9}$		$D)\frac{1}{5}$	
	4)	Two 6-sided dice	are rolled. V	Vhat is the pro	obability that tl	ne sum of the	e two numbers of	n the dice will be 3?	
		۸)2		B) $\frac{1}{2}$		C) $\frac{17}{18}$		D) $\frac{1}{18}$	ŧ
	5)	find the probability Type of accommodation House Flat Apartment Other	Number 690 387 543 605	someone who	•			s is randomly select andth, if necessary.	≗d,
		A) 0.239		B) 0.003		C) 0.174		D) 387	
Ansı	ver	the question.			•		8		
•	6) In a certain town, 4% of people commute to work by bicycle. If a person is selected randomly from the tow what are the odds against selecting someone who commutes by bicycle?					lomly from the town	1,		
		A) 24:25		B) 24:1		C)1:24		D) 1:25	
	7)	If $P(\Lambda) = \frac{1}{6}$ then fi	and the odds	against A hap	opening.		•		
		A)1:6				B) 5:1			
		C) 1:5		,		D) None of	the above is corre	ect.	
	8)	Find the odds aga	inst correctl	y guessing the	answer to a m	ultiple choic	ce question with	3 possible answers.	
		Λ)3:1		B) 2:3		C)2:1		D)3:2	

Find the indicated probability.

9) Based on meteorological records, the probability that it will snow in a certain town on January 1st is 0.342.

Find the probability that in a given year it will not snow on January 1st in that town.

A) 2.924

B) 0.658

C) 1.342

D) 0.520

10) Find $P(\overline{A})$, given that P(A) = 0.223.

A) 0.777 B) 4.484 C) 0 D) 1.223

11) The probability that Luis will pass his statistics test is 0.58. Find the probability that he will fail his statistics test.

A) 1.38 B) 1.72 C) 0.42 D) 0.29

12) A spinner has equal regions numbered 1 through 21. What is the probability that the spinner will stop on an even number or a multiple of 3?

A) $\frac{1}{3}$ B) $\frac{10}{9}$ C) 17

13) A sample of 100 wood and 100 graphite tennis rackets are taken from the warehouse. If 15 wood and 20 graphite are defective and one racket is randomly selected from the sample, find the probability that the racket is wood or defective.

A) 0.175

B) 0.575

C) 0.6

D) There is insufficient information to answer the question.

14) A study of consumer smoking habits includes 193 people in the 18–22 age bracket (60 of whom smoke), 127 people in the 23–30 age bracket (35 of whom smoke), and 96 people in the 31–40 age bracket (23 of whom smoke). If one person is randomly selected from this sample, find the probability of getting someone who is age 23–30 or smokes.

A) 0.589

B) 0.276

C) 0.505

D) 0.084

15) A card is drawn from a well-shuffled deck of 52 cards. What is the probability of drawing an ace or a 9?

A) $\frac{5}{13}$

B) $\frac{2}{13}$

C) 1.0

D) $\frac{13}{2}$

16) A card is drawn from a well-shuffled deck of 52 cards. What is the probability of drawing a face card or a 4?

A) $\frac{2}{13}$

B) $\frac{12}{13}$

C) 16

D) $\frac{4}{1.3}$

17) In one town, 51% of all voters are Democrats. If two voters are randomly selected for a survey, find the probability that they are both Democrats.

A) 1.020

B) 0.260

C) 0.255

D) 0.510

18) Find the probability of correctly answering the first 2 questions on a multiple choice test if random guesses armade and each question has 6 possible answers.

 $A)\frac{1}{3}$

B) $\frac{1}{36}$

C) $\frac{1}{64}$

D)3

	A bin contains 60 lig replacement, find the	9) A bin contains 60 light bulbs of which 8 are defective. If 6 light bulbs are randomly selected from the bin with replacement, find the probability that all the bulbs selected are good ones.					
	A) 0.47	B) 0.867	C) 0.42	D)0			
	20) In one town, 64% of a from the town all have	adults have health insurance?	ce. What is the probability that	10 adults selected at random			
	A) 6.4	B) 0.64	C) 0.012	D) 0.156			
	21) You are dealt two car probability that both	ds successively (without re	eplacement) from a shuffled dec	ck of 52 playing cards. Find the			
	A) $\frac{25}{102}$	B) $\frac{1}{2,652}$	C) $\frac{25}{51}$	D) $\frac{13}{51}$			
	22) A IRS auditor randon that she selects none	nly selects 3 tax returns from of those containing errors?	m 52 returns of which 8 contain	errors. What is the probability			
	A) 0.0025	B) 0.6058	C) 0.5993	D) 0.0036			
	23) A sample of 4 differer that have no defects.	nt calculators is randomly s What is the probability that	elected from a group containing t all four of the calculators selec	g 44 that are defective and 22 tted are defective?			
	A) 18.5579	B) 0.0625	C) 0.1975	D) 0.1884			
	Men 401 Women 420 Total 821	Light Heavy smoker smoker Total 48 42 491 50 39 509 98 81 1000	a group of asthma sufferers. m the 1000 subjects, find the pr	obability that they are both			
	A) 0.2588	В) 0.1764	C) 0.000003860	D) 0.2591			
2	- Proceditetti Hotti Hic	k radios 4% are defective. A 3,000 and tested. The entire probability that the entire l	A sample of 7 clock radios is rar batch will be rejected if at leas patch will be rejected?	ndomly selected without t one of those tested is			
	A) 0.0400	B) 0.249	C) 0.751	D) 0.143			
2	that have no defects. Y	calculators is randomly se That is the probability that	lected from a group containing at least one of the calculators is	18 that are defective and 35 defective?			
	A) 0.821	B) 0.180	C) 0.810	D) 0.179			
2	The state of the differ grad	certain college shows that luation. Find the probabilit chosen field within a year	53% of the school's graduates to that among 5 randomly selector graduating.	find a job in their chosen field ted graduates, at least one			
	A) 0.200	B) 0.530	C) 0.958	D) 0.977			

28) The table below shows the soft drinks preferences of people in three age groups.

	cola	root beer	lemon-lime
under 21 years of age	40	25	20
between 21 and 40	35	20	30
over 40 years of age	20	30	35

If one of the 255 subjects is randomly selected, find the probability that the person drinks root beer given that they are over 40.

A) $\frac{6}{17}$

B) $\frac{2}{17}$

C) $\frac{2}{5}$

D) None of the above is correct.

29) The table below describes the smoking habits of a group of asthma sufferers.

		Light	Heavy	
	Nonsmoker	smoker	smoker	Total
Men	373	76	90	539
Women	375	86	89	550
Total	748	162	179	1089

If one of the 1089 subjects is randomly selected, find the probability that the person chosen is a woman given that the person is a light smoker.

A) 0.531

B) 0.156

C) 0.079

D) 0.249

30) The following table contains data from a study of two airlines which fly to Small Town, USA.

		Number of flights	
	which were on time	which were late	
Podunk Airlines	33	6	
Upstate Airlines	43	- 5	

If one of the 87 flights is randomly selected, find the probability that the flight selected is an Upstate Airlines flight which was on time.

A) $\frac{43}{76}$

B) $\frac{11}{76}$

C) $\frac{43}{87}$

D) None of the above is correct.