C).6

D).5

referendum were held today, estimate the probability that it would pass.

B).65

0, 1, 1, 0, 0, 1, 0, 1, 1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 0

A).4

## Answer the question.

10) If  $P(A) = \frac{8}{9}$  then find the odds in favor of A happening.

A)8:9

B)8:1

C)1:8

- D) None of the above is correct.
- 11) In a certain town, 20% of people commute to work by bicycle. If a person is selected randomly from the town, what are the odds against selecting someone who commutes by bicycle?

A)1:4

B) 4:1

C)4:5

D)1:5

12) Find the odds against correctly guessing the answer to a multiple choice question with 7 possible answers.

A)7:1

B) 6:7

C) 6:1

D)7:6

Find the indicated probability.

13) If  $P(A) = \frac{2}{5}$ , find  $P(\overline{A})$ .

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

B) 0

 $C)\frac{2}{7}$ 

 $D)\frac{3}{5}$ 

14) The probability that Luis will pass his statistics test is 0.29. Find the probability that he will fail his statistics test.

A) 0.15

B) 0.41

C) 0.71

D) 3.45

15) A spinner has equal regions numbered 1 through 15. What is the probability that the spinner will stop on an even number or a multiple of 3?

A) 12

·B) $\frac{1}{2}$ 

C) $\frac{7}{9}$ 

D) $\frac{2}{3}$ 

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

	1	Occasional	Regular	Heavy	
	Nonsmoker	smoker	smoker	smoker	Total
Men	383	37	89	35	544
Women	444	44	78	42	608
Total	827	81	167	77	1152

If one of the 1152 people is randomly selected, find the probability that the person is a man or a heavy smoker.

A) 0.478

B) 0.509

C) 0.539

D) 0.455

17) A sample of 100 wood and 100 graphite tennis rackets are taken from the warehouse. If 15 wood and 19 graphite are defective and one racket is randomly selected from the sample, find the probability that the racket is wood or defective.

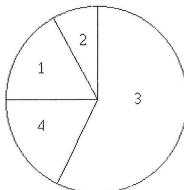
A) 0.17

B) 0.595

C) 0.575

D) There is insufficient information to answer the question.

18) 100 employees of a company are asked how they get to work and whether they work full time or part time. The figure below shows the results. If one of the 100 employees is randomly selected, find the probability of getting someone who carpools or someone who works full time.



- 1. Public transportation: 7 full time, 10 part time
- 2. Bicycle: 3 full time, 3 part time
- 3. Drive alone: 32 full time, 26 part time
- 4. Carpool: 9 full time, 10 part time
- A) 0.29

B) 0.53

C) 0.17

D) 0.61

- 19) A 6-sided die is rolled. What is the probability of rolling a 3 or a 4?
  - A) $\frac{1}{36}$

B) $\frac{1}{6}$ 

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

- D) 2
- 20) 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) $\frac{4}{13}$ 

C) 16

- D) $\frac{12}{13}$
- 21) The table below describes the smoking habits of a group of asthma sufferers.

		Occasional	Regular	Heavy	•	
	Nonsmoker	smoker	smoker	smoker	Total	
Men	366	50	71	36	523	
Women	420	47	86	35	588	
Total	786	97	157	71	1111	

If one of the 1111 people is randomly selected, find the probability of getting someone who is a regular or heavy smoker.

A) 0.096

B) 0.141

C) 0.469

- D) 0.205
- 22) In one town, 22% of all voters are Democrats. If two voters are randomly selected for a survey, find the probability that they are both Democrats.
  - A) 0.440

B) 0.046

C) 0.048

- D) 0.220
- 23) A bin contains 66 light bulbs of which 7 are defective. If 5 light bulbs are randomly selected from the bin with replacement, find the probability that all the bulbs selected are good ones.
  - A) 0.60

B) 0.57

C)0

. 1

D) 0.894

24)	In one town, 70% of adults have health insurance. What is the probability that 6 adults selected at random from the town all have health insurance?						
	A) 0.086	B)	0.7		C) 4.2	D) 0.118	
25)	In a homicide case 7 different witnesses picked the same the identifications were made by random guesses, find same person.						
	A) 1.4	B)	0.00001	28	C) 0.0000595	D) 0.000064	
26)	You are dealt two card probability that both of A) $\frac{25}{102}$		ack.	thout replacemen	nt) from a shuffled decoration $C) \frac{13}{51}$	ck of 52 playing cards. Find the $D) \frac{1}{2,652}$	
27)	7) A IRS auditor randomly selects 3 tax returns from 49 returns of which 14 contain errors. What is the probability that she selects none of those containing errors?						
	A) 0.0198	B)	0.3644	,	C) 0.3552	D) 0.0233	
28)	A sample of 4 differenthat have no defects. VA) 0.1493	Vhat is the	rs is ran probab 0.1354	domly selected fi	rom a group containir of the calculators sele C) 0.1446	ng 37 that are defective and 23 octed are defective?  D)7.4585	
29)	The table below description of table below descript	Light H	eavy		of asthma sufferers.		
	If two different people women.	are rando	mly sel	ected from the 94	6 subjects, find the pr	robability that they are both	
	A) 0.2233	B)	0.2230		C) 0.000005005	D) 0.1497	
30)	Among the contestants in a competition are 39 women and 25 men. If 5 winners are randomly selected, what is the probability that they are all men?						
	A) 0.00697	B)	0.08403		C) 0.10824	D) 0.09228	
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