AP Statistics Test C	' – Probability -	- Part IV	Na	me	
B) getting an A C) having a dr D) having a ca	ents are most lib at tire, and bein A in math, and g iver's license, a r accident, and ior, and leaving	g late for scho getting an A ir and having blu having 3 inch	ol n Physics e eyes es of snow tod	lay	
is 45%, and th candidate is 20 only Hillary re	e probability th 0%. If their poli uns for presiden	at NY's Gover tical decisions	rnor George P are independe	ataki will run	or president in 2008 as the Republican is the probability tha
handed. Resulthe one shown	tether the students were summand. If it turned out f gender, how note the student in the studen	nt was left or 1 rized in a table t that handedn	right- e like ess was	oy irl ? tal 20	Righty Total 66 54 100 120 not be determined.
-	cil has 6 men ar nat is the probab B) 1/2		-		of them to co-chair a der?
B) The numbe C) The numbe D) The numbe E) The numbe	r of cards of ear r of people we r of cars inspec r of Democrats r of aces among	ch suit in a 10 check until we ted until we fi among a grou g the top 10 ca	-card hand. e find someone nd three with l up of 20 randor rds in a well-s	bad mufflers. mly chosen ad huffled deck.	lults.
_ 6. Which of the r	andom variable	s in #5 is mos	t likely to have	e a binomial r	nodel?
what a "jumbo		ke, so you star	nd and watch to ourth cone you	he sales for a	size. You want to see while. What is the 1? E) 93%
-	•			•	,
_ 8. what is the prostand in #7?	obability there	is exactly 1 Jul	moo among th	e msi o cones	s sold by the ice crear
A) 6%	B) 12%	C) 3	8%	D) 54%	E) 84%
surprised that		s. But then yo	u get bored an		t 20 tosses and are many heads do you
21) 100	D) 103	C) 110	D) 113	12) 130	

Unit 4 Practice Test

_	с: w	an do, and a po vith a standard of their combine	oint for each sit deviation of 4	t-up. National repush-ups, and 3 s was therefore	esults showed t 4 sit-ups with	one point for each push that boys average 18 push standard deviation 11. points. What is the stan	ushups The mean
		A) 5.3	B) 11.7	C) 15	D) 137	E) It cannot be determ	nined
11.	tha					ey investigated last yea cohol, and 10% involve	
		What is the pr	obability that a ner alcohol nor			two risk factors appear ent? Explain.	to be
12.	pre 209	p course. 30% % of the other	of the SAT prestudents. You o	ep students were	e admitted to tl mate say he go	the SATs had enrolled heir first choice college ot into the college he w	e, as were
13.	me pin tha a.	n was 154 pins is and standard t randomly pai On average, h	with a standar deviation 12 p rs men and wo ow much do yo	ed deviation of sins. At the end of men as opponer ou expect the m	pins, while the of the season that in the first range and to win by?	employees. The mean ne women had mean sc he league holds a tourr round. ompetitor's scores.	ore 144
IV:	c. -14	What assump	tion did you ma	ake in determini	ing the standar	d deviation?	
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Unit 4 Practice Test

	moking State public health officials claim that We start selecting a few adults at random, a why these can be considered Bernoulli trials	sking each if he or she is a smo	
b.	How many people do you expect to have to	ask in order to find a smoker?	
c.	Let X represent the number of smokers amo What is the probability model for X? Name specify the mean and standard deviation of	the model (including its param	
	Model	Mean	SD
d.	What is the probability that there are at least	t 8 smokers among our sample	of 30 people?
ab bil wh eff the	eatbelts Safety officials hope a public information to be the current 70% level. Their efforts incluillboards, having police officers appear on talk hether people injured in accidents were belted fectiveness of this campaign with a statewide ose drivers report that they wear a seatbelt. Verify that a Normal model is a good approsituation.	de running radio and TV ads, possible shows, and getting newspaper d in. After several months they survey of 560 randomly chose	outting up es to indicate check the n drivers. 407 of
b.	Does the survey result suggest that the educ Explain.	ation/advertising campaign wa	s effective?

Unit 4 Practice Test

 6. Strange dice A game is played with 2 strange dice. The six faces of Die A show a 1 and five 3's. 	
 Die B has four 2's and two 6's. 	
a. Create a probability model for the total you get when you roll both d	ice.
b. Find the mean of the total.	
c. Find the standard deviation of the total.	
17. Still strange dice Suppose you use the two dice from #16 in a competition player. You will roll one of the dice and your opponent will roll the other	
player. You will roll one of the dice and your opponent will roll the other the person who rolls the higher number. You get first choice of dice and	er one. The winner is
player. You will roll one of the dice and your opponent will roll the other	er one. The winner is
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