	The second secon	0	e.
	amp	le guz	
		1	
14 1140 0 000		NAME	Vor
Math 142 – Spring 200		NAME:	Neg
Quiz #4	15	2	
Sections 11.3 - 11.4	1	Seat:	
Partial credit is based	i on work snown:		
2pts	2		N
 If the <u>probability</u> of 	event E occurring is $\frac{2}{3}$, v	vhat are the <u>odds in favo</u>	r of event E?
	3		
4pts			
2. According to a cert			d break even (no loss & no
profit), 30% lose \$100	0, 25% lose \$8,000, and 25	5% make a profit of \$20	,000. What is the expected
value (average profit)	for a book published by th	is company?	P3 V3 + P4 V4 (=800) + 25 (20,000)
· · · · · ·	Pivit	Ky +	-(#)
exp. value	$=\frac{20}{100}(30) + -$	$\frac{30}{100} \left(-\frac{4}{1000} \right) + \frac{30}{1000}$	1-8000/+ 330(20,000)
·		•	
C .	= *0 +(*	(#	1 (#
are protot	= *0 +(-	300) +(-2°°	9+15000/
U			/
	= # 2700		
	- 2100		
3pts	1 A 10 A 1 - 1 - 1 - 6 - 1	1. 116	
	plates with three letters foluse plates can be made that		<u> </u>
a. How many need	se plates can be made that	begin with ATW?	
(.(.1.10.10.	10.10 = 10,0	C 0	•
オテル ーー・			
b. How many of the	nese plates have four numb	ers that are all the same	? (For example, ATW 4444)
			10
			,
c. What is the pro	bability of having a license	e plate like those describ	ed in part b?
	10		
0.1/2	10,000	1000	
Like 11.3 6pts	• /	, 000	
SAT # 1 If a group of 5 stud	ents must be chosen from	6 boys and 3 girls, how	many different groups are
a. there are no rest		9 stude 1's	, c .
a. there are no rest	rictions?	b. there must be 3 b	oys and 2 girls in the group?
Condition of the		1 60/3	· girls
19.8.7.6	,5)	1 / 2 / 3	• C
	 	6 9	3 2
51			
		6	3(
1,7120		2/3/	1/21
15120	- 11261 11	3,01	1,21
120	-	V ~ 11	- (
		6.314	. 3.7
W. James Co.		\ <u></u>	\mathscr{A}
0x (C 9	11	~	·
9 9 5 = -	1-1	,	
) ' 4.	!5: 1	20	· 3 = 607
/			1 9