F740K	10368	A 4	FII H	11/-1		
	data represent the length of		stem!	Leas	F	regaenay
	t flies subject to a new spray	v in a	OX	3 4		2
17 20 10 9 12 14 6 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24 7	0. 5666	7777778	81999	17
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11 8	1 A 00000	10 12233333	44	16
7 10 5 14	15 10 9 6 7 ble-stem-and-leaf plot for th	15 e life ———	1.55	667888	99	10
$2\star$, $2\cdot$, and $3\star$ such	flies using the stems $0*$, $0\cdot$, 1 a that stems coded by the sym	nbols	28	034	,	<u> </u>
through 4 and 5 t		ves 0	2 .	7		
. ,	frequency distribution. ive frequency histogram.		3 &	2		
(d) Find the median.		1 5 5 6	O loste o C	Chool and the		
b)class interval	Class Midedint	Frequency 2	Relative F.	requency		
5-9	7	(1)	0. zrg	<u> </u>		
10-14	/2	16	0-32			
15-19	17	10	19, 20			
20-24	2 2	3	0.06		,	
25-29	21)	/	0.02			
30-34	32	,	0 0 2			
C) 0.9			d) \(\tau_{=\frac{1}{2}} \)	V1/2+7/6/	11)	
<i>3</i> \			· · · · · · · · · · · · · · · · · · ·	1 > 7	*//	
Relative Arabu			25	+26	10 +11=	103
7	<u> </u>	•	•	ح	2	· · · · · · · · · · · · · · · · · · ·
2 0,2+	.				 	
3						
75 0,1+		· 1				
			, ,			
	2 7 /2 17 22	2732				
Leangth of	fruit flieslite	Ciase only				
					· · · · · · · · · · · · · · · · · · ·	
						· · · · · · · · · · · · · · · · · · ·
		• • • • • • • • • • • • • • • • • • • •				

2.8 For the sample space of Exercise 2.4,

(a) list the elements corresponding to the event A that the sum is greater than 8;

(b) list the elements corresponding to the event B that a 2 occurs on either die;

(c) list the elements corresponding to the event C that a number greater than 4 comes up on the green die;

(d) list the elements corresponding to the event $A \cap C$;

(e) list the elements corresponding to the event $A \cap B$;

(f) list the elements corresponding to the event $B \cap C$;

(g) construct a Venn diagram to illustrate the intersections and unions of the events A, B, and C.

a) { (3,6), (4,5), (4,6), (5,4), (5,3), (5,6) A= (6,3), (6,4), (6,5), (6,6) }

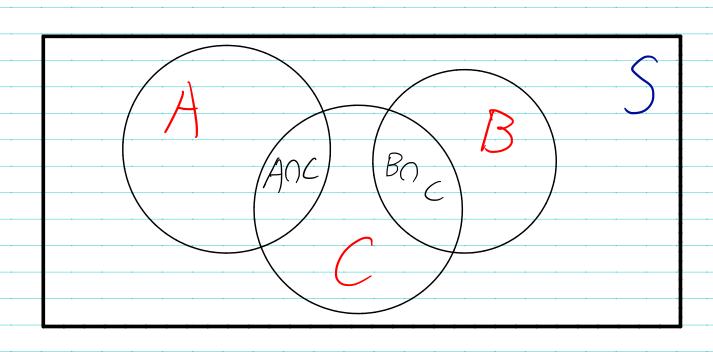
b) (1,2),(2,2),(3,2),(4,2)(9,2),(6,2) B=(2,1)(2,3),(2,4),(2,5),(2,6)3

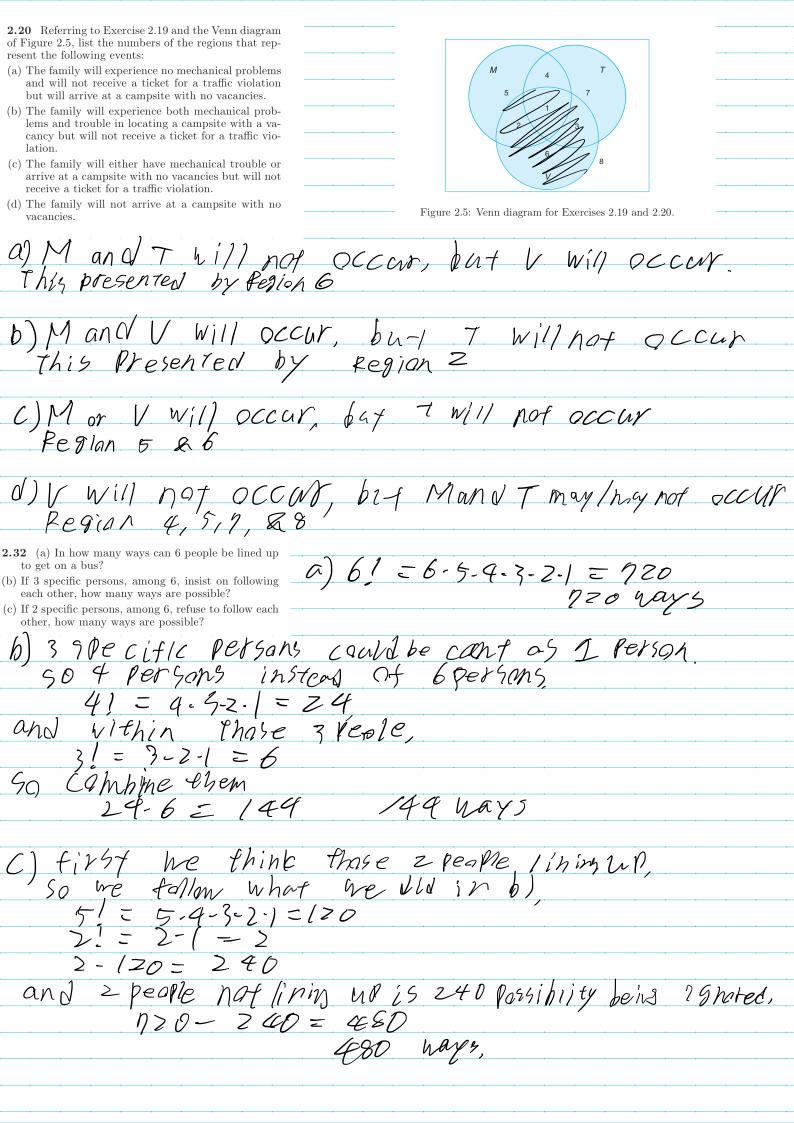
c) $\{(5,1),(5,2),(5,3),(5,4),(5,5)\}$ C=(5,6),(6,1),(6,2),(6,3),(6,4)(6,5(6,4))

 $d)A \cap C = \{(5,4), (5,5), (5,6), (6,3), (6,4), (6,5), (6,6)\}$ $e)A \cap B = \emptyset$

f) Bn (= & (5,2), (6,2)9

8) from a) nf)





```
F74067036 常定 利
>> load lamp_life.txt
boxplot(lamp_life)
xlabel('All Lamps')
ylabel('Lmaps Life Time')
title('Life of 50 lamps')
>>
```

919 1196 1156 920 1170 929 1045 855 938 970 978 832 765 958 1217 1085 702 923 785 1126 936 918 948 1067 1092 1162 950 905 972 1035 1195 1195 1340 1122 1237 956 1102 1157 1009 1157 1151 1009 902 1022 1333 811 896 958 1311 1037

