[\_\_/

S. C.

9

9:3: 3 coirs are tossed.

S = \$ HHH, HHT, HTT, TTH, THH, HTH,

p(s) = 8

A = Iwo heads and one tail

A = & HHT, THH, HTH }

p(A) = 3/.8

 $P(A) = \frac{3}{8} \quad or \quad 0.375$ 

9:4: Tue Dice are relled.

 $S = \begin{cases} (1,1), (1,2), (1,3), (1,4), (1,5), (1,6) \\ (2,1), (2,2), (2,3), (2,4), (2,5), (2,6) \\ (3,1), (3,2), (3,3), (3,4), (3,5), (3,6) \\ (4,1), (4,2), (4,3), (4,4), (4,5), (4,6) \\ (5,1), (5,2), (5,3), (5,4), (5,5), (5,6) \\ (6,1), (6,2), (6,3), (6,4), (6,5), (6,6) \end{cases}$ 

n(s) = 36

A seguals to 1

\_\_/\_/\_\_\_

$$R(B) = \begin{cases} (1,1), (1,2), (1,3), \\ (2,1), (2,2), \\ (3,1), \end{cases}$$

C+ Sum is divisible by 2 and 3.

to man alled a prome of

$$P(c) = \begin{cases} (1,5), (2,4), (3,3), (4,2), (5,1) \end{cases}$$

9:	5: Total number of balls = (2+3+2) = 7.
	s = 2 + 3 + 2 }
	n(s) = Number et ways et drawing 2 balls out et 7.
	= 7 <sub>C</sub> <sub>2</sub>
	$=$ $(7 \times 6)$
	(2x1)
	ty The Table
	= 42
	2
	= 21
0	
H	is blue. I drawing 2 balls none of which
MIN.	nce) = 5 c
371	13 (4 14 14 14 14 14 14 14 14 14 14 14 14 14
Pid Life	= 5 X4
	(2 X1)
	= 20
	2
	= 10
	PCE) = DCE)
	r(E) = 10 3 = 0.47

\_/\_/\_\_

9:12: 34, 36, 36, 38, 38, 39, 39, 40, 40, 41, 41, 41, 41, 41, 42, 42, 42, 45, 49, 56

1) Mean:

u = \(\frac{2}{X}i\)

= 738

= 41

2) Median:

i) sorted data !-

34 36 36 38 38 39 39 40 40 41 41 41 41 42 42

Median = 40+41

= 81

2

= 40.5

3) Mode:-

41

3)		- 41 15	mean = 41
4)	Vario	ince!—	
		a back	
	34	34-41 =-7	49
	36	36-41 =-5	25
	36	36-41=-5	25
	.38	38-41=-3	9
	38	38-41=-3	9
	39	39-41=2	4
	39	39-41 =-2	4361 =
	10	40-41 = -1	
4	0	40-41 = -1	1
4	1	41-41 = 6	0 (4) =
4	1	41-41=0	0
41		41-41 =0	0
41		41-41=0	0
42		42-41=1	- acib, H
42		42-41=1	1- Deab Extracti
45		45-41=4	16
49		49-41 = 8	864
56.	•	56-41 = 15	225
738		A PARTIES	434
1			1 Paul A v T
1	,		Median = modem -
Var	iana =	434	
		18 = 2	4.11

Standard deviateon = 4.9101

along

	cardies count	Pro balelity	
-6) child		0.015	
A	4 4 60000	0.20	
В	3	0.65	
C	5	0.005	
D	6	0.01	
E	2	0.120	
F	1 2 2		
	1 cardy -> 0.015		

child A \rightarrow 1 candy \rightarrow 0.015

child B \rightarrow 4 candies \rightarrow 0.20

> Expected number of cardies for a randomly selected child

= 1 x 0.015 + 4 x 0.20 + 3 x 0.65 + 5 x 0.005 + 6 x 0.01 + 2 x 0.12

= 0.015 + 0.8 + 1.95 + 0.025 + 0.06 + 0.24

= 3.090

= 3.09

0:8: calculate expected value. 108, 110, 123, 134, 135, 145, 167, 187, 199 -> Expeded value = (108 + 110 + 123 + 134 + 135+ 145 + 167 + 187 + 199) /9 = 145.333, 9:10 The histograms peak has right skew and tail is on right. Mean > Median we have outliers on the higher side. The boxplot has outliers on The maximum 9:19: There are no outliers. Both the box plot shares the same median that is approximately in a range b/w 275 to 250 and they are normally distributed with zero to no skewness neither at the minimum or maximum range.