May:	\ -\w'	Date: / /
3	Question 1	
3		
	Mean of grouped date	Y.Z.
	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Q	Range f X	IX.
	0-18 5 5	25
	10-20 8 15	120
	20-30 12 25	300
9	30-40 20 35	700
	40-50 10 45	450
-	50-60 5 55	275
-		DELENGATION ACCOUNT
3	Formula for mean of a	prouped data:
-	EIX	Track - Richard
- Tank	E	
	U	
<i>T</i>	=25+120+300 +700+450+	275
<u> </u>	5+8+12+20+10+5	
3	211/7	The second secon
Mean	= 31.167	3242
2	Question 2	
	Question 2	
3	Median of grouped dat	(2)
3	Median of grouped dat	u:
1	Parare	
	Range f Cf	
7	2010-3000 7 10	
<u>~1</u>	3000-4000 15 25	
J.D.	400-500 25 50	
0	5000-6000 10 60	Exclusive
	7000 70000 10 100	Falcon

Day:		Date:	/	/
	Formula fer median in grouped	dala:	1	
	1+h(n-c)			
	[2	1.1		
	Median Clars:			
	N = 60 $N = 30$			
	2	100		
	Median dars is 4000 - 5000	(i) (i)		
	(3/1) 25 (4)	111-	A	
	L=4000 n=60		11	
	h=1000 C=25	23-		
	[= 25	and the second second second		
	Control of the Contro	L'approx	_	
	Median = 4200]	Y Y	-	
	Question 3		7	
	THE RESERVE OF A CONT.	7.11.00		
	Mode of grouped data:	5 3 1 3		
	of office action.			
	Range f		1	
	0-10 4			414700
	10-20 6		7	
	20-30 15		-	
	30-40 20	·		-
	40-50 10			1000
_				- 1000
	50-60 5		-	
	Madal Man 2m la			
	Modal Clars 30-40		- 1	
-				
	the second secon	No. and the second second		
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		9

vy:	N2.					/ /
	ula for	mexi	e fer	moupe	d data:	
	+	m - f.	U	h		
	/1m-1	1) +/(,	n - ()			
	Jan 1	1)	19			
L=.	30) 1	Model =	33.33	-11	1
AND DESCRIPTION OF THE PERSON NAMED IN	10	65.1	18.6	1 9 1	/ · ·	
<u></u>	20		p7.	1 25 1		
000	= 15				-	
J' -	. 10	100		1.17	N. C.	
0,2			11.6	7 S		· ·
						1
Qu	estion	4:			1/	
			٠ .	1 10		uls l
Sto	ndard	deval	tion a	nd van	eance	
		G	101/-	<u> </u>	χ²	1.2
	vs limits	-	Mid (x)	1.x	48-3	386-42
and the second second second second	- 8-9	30	6. 95	219	119.9	2398.05
9-		29	14.95	433.55	223-5	6481.57
	<u>-16-9</u> - 20-9	45	18-95	852.75		16159.61
		32	22-95	734.4	5267	16854-48
	-24·9 -28·9	19	26-95	512-05		13799.75
	-32.9	7	36-95	216-65		6705-32
29		Ef=160	30 .	$\Sigma \int x = 30$		$\Sigma f n^2 = 6268$
- And the second second		7-100		7,230		- 1 - D
Ţ,	= Efx =	18.9		WIN	ariance =	- 34.75
, - 1	511 =	10-1			t. dev =	the state of the s
2	= Zfn2 -	- (2)	2/2			5.88
	1	(2)				
	2/x 2		9)2			Fall
	62685.2	-(10	1)			700
15-	34-75					

Day:	Date: / /
	Question 5
	Quartiles, Deciles, Percentiles
<u>Q</u>	24 observations
	1.11, 1.13, 1.17, 1.21, 1.23, 1.24, 1.25, 1.25, 1.27, 1.27
	1.28, 1.29, 1.30, 1.31, 1.31, 1.32, 1.33, 1.34, 1.35, 1.36
	1.36, 1.37, 1.38, 1.39
	Upper quartile: 3 x 24 = 18th value
	3 x 24 = 18 value
Ans	=1.34
AWS	=1.039
	3rd deile:
	3 x24 x 8th value
	10 (Ship)
Aux=	1-25 P.3
7.003	
- X - C	57th percentile:
1.0	57th percentile: 57 ×24 ≈ 14th value
	160
	THE BOOK OF THE STATE OF THE ST
Ans	1.31
•	
1.00	P. Species Ville
,	
	paticity
1-1-4	Falcon,

Day:	Question 6: Date: 11
	Probability:
3	V
Q	A box contains 5 red, 7 green and 8 blue mark
	2 marbles are drawn without replacement. What is
	the probability that the 2nd marble is blue given that first marble is ned.
	that first marble is red.
	Total noubles = 20
	P(R) = 5 = 1
3	
3	(P(B/R) = 8) 1 - 4 9 9 10 - 10 - 10 - 10 - 10 - 10 - 10 -
3	19
3	Probability
	Probability
<u> </u>	i adjud tien til tie makabilitud
<u> </u>	A dire is rolled twice what is the probability of
	getting a sum of 7?
3	Possible outcomes = (1,6)(2,5)(3,4)(4,3)(5,2)(6,1)
1	Total outcomes = 6 x6
<i>y</i>	Prebability= L)
	6
3	
<u></u>	Question 8:
	Binomial Distribution
5	
	A die is rolled 5 times and 5 or 6 is considered
<u> </u>	success. Find the probability of:
79	
	Falcon
3	

Day:	Date: / /
(a)	No succers
,	Formula:
	$P(X=X) = \begin{cases} n & 0^{2} q^{x-2} \end{cases}$
1,0,0	P
	$P(X=0) = [5] \cdot 0 - a \cdot (2)^{4-0}$
•	10 3 1 (3)
	= 16
b)	At wort 2 success
/-	$P(X > 2) = 1 - P(X = 0) \neq P(X = 1)$
	=1-16-(5)1.(2)4
	61 (1) 63 (3)
	= 0.5391
	the state of the s
1-1/1/1	Question 9
,	Binomial Distribution
	700
Ó	If on and rain folls on 12 days in eveny 30 stind
,	the probability that the rain will fall on only
	If on any rain falls on 12 days in every 30 stind the probability that the rain will fall on only 3 days of the week.
	$P(X=3) = (7) \cdot (2)^3 \cdot (3)^{7-3}$
	(3)(5)(5)
•	The state of the s
	= 0.2903
	V.
	Falcon

Day:	Date: / /
C	Question 10
<u> </u>	Poisson Distribution
Q	For the care of thin copper wire wire, suppose there are 2.3 is a mean of 2.3 fears per millimeter. Determine the probability of:
	there are 2.3 is a mean of 2.3 flaws per
	millimeter. Determine the probability of:
	and the second of the second o
<u>a)</u>	At most 2 flaws per mm
	Formula: $P(X=x) = e^{-ux}$
<u> </u>	$P(X=n) = \underbrace{e \cdot u}_{n \mid 1}$
<u> </u>	· · · · · · · · · · · · · · · · · · ·
	Tax 21=0-
3	For $n=0$ $e^{-2.3}.2.3^{\circ}=0.1$
37	
<u></u>	•
-	For n=1
	$e^{-2.3} \cdot 2.3 = 0.23$
3	
3	
130	For $n=2$
100	$e^{-2.3} \cdot 2.3^2 = 0.265$
3	21
7	P(X = 2) = 6.1+0-23+0.265 = 0.5961
1	enactly 2 plans per min
6)	exactly 2 flaws per mm
77	P(X=L) = 406 + - 00241
70	7
TO .	
778	Falc

Day:	Date: / /
	Question 11
	Uni form Distribution
6	The arrival time of an engineer is uniformly
	distributed in the interval between 8 am to 9 am.
	Find the probability that the engineer will arrive in
	Find the probability that the engineer will arrive in the next minute given that she has not arrived
	by 8:30
	C. mart 1
	A= Event that the engineer arrives in the next min
	A= Event that the engineer arrives in the next min B = Event that she has not arrived by 8:30
	P(B)= 30 = 0.5
-	60
	$P(A \land B) = 1$
	60
	$P(A B) = \frac{1}{60} = 1$
	0.5 30 86.5
	Question 12:
	Namal Distribution:
Q	The weights in an orchard are normally distributed with a mean of 150 grams and st clev of 20g. I what is the prob that the a randomly selected apple weights between 130 to 170g?
	with a mean of 150 grams and st clev of 20g.
	what is the prob that the a randomly selected
	apple weights between 130 to 170g?
	8
	Z, = 130-150 =- 1 wing normal distribution toble
	20 P.(-182 Z1) = 6.6826
	2 = 176-150 = 1.
(1)	26 Falcon

Day:	Date: / /
	Question 13
6	
	mins and st dev of 8 mins, What is the prob
	that the commute time of a randomly relieted
	worker is more than 50 mins
-	
	2 = 50 - 35 = 1.875
	8
	Vring table:
	P(2 > 1.875) = 6-0301
	n \$50 mins