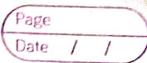
10.11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
12 Analyzing Curtomer Wait fime:
Datard:
The transfer with the terms of the terms
· Cuitomix IP
· Wait time (minute)
Summany stats (wait time)
= O i = Pranti, man in a commentate Love into
· man = 5.356
• standard deviation = 0.39
minim = 4.5
· maximum = 6.30
· skumus: 0.0500
· Kuntusis: -0.345'5
· IOR: 5.675 - 5.1 = .575
· Median: 5.35
* standard deviation & small = dataset closely.
packed ayound mean
The transfer of the state of the property of
* IPR'u small => dataset is tightly dustered
around median
* skownes = 0.05 (almost porferly symmetric)



kurdosis is -ve (plightly platykurtic).	9.
= somewhat flatter peak and thinner tails	_
Plotting the data into a histogram	
median	
3º modian	_
The state of the s	_
	1
5	
4	
\$\frac{4}{5}\$ \\ \frac{3}{5}\$ \\ \frac{2}{5}\$ \\ \frac{1}{5}\$	_
	(IV
0 4.5 4.75 5 5.25 5.50 3.75 6.06 6.25	
Wait times (minutes)	
to the same of the	-
* we see the distribution follows a flatter	
homal distribution	-
the state of the s	<i>f</i> -
* almost meun = medlan = mode.	
The property of the property o	.1

normal detablidion.

we see Normal distribution makes most sense. · CLT ((entral limit theorum) wetake sample of 20 customers. sample meun = 5.365 mins sample standard deviation = 5.1655 =02718 Stundard exnor sample Saniplesize - 0.5215 = 0.1166 min then according to (LT,

sampling distribution of sample mean is

$\bar{X} \sim N(5.365, (0.1166)^2)$

Probability that the sample mean exceed 5.5 minutes:

P(X(20) > 5.5)

Z = 5.5 - 5.356 = 1.2410.1166

 $\phi(1.241) = 0.8928$

P(Z>1.241)=1-0.8928= 6.1072

 $P(\chi_{20}) > 5.5 = 10.72\%$

Interpretation-

very likely to be close to the overall mean of 5.385 mins,

· standard error is about 0.1166ming-

- the chance that any exceeds 5.5 mins 4s quite low (~10.72%)
- below 5.5 min, inclicating relatively stubble service from