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Data.		SALES AND PORTS	

Confidence Internal and Sample Size Calculation	2
a) 95 % Confidence Interval for the percentage voters for Candidate A	oF
Calculate Sample Size proportion P -No. of Ubters For candidate A = 380	
- Sample Size = 800	
$\hat{p} = \frac{380}{800} = 0.475$	
2) 2 score for 95%. Confidence level for 95% = 1.96	,
3) Satanders error=	
$SE = \sqrt{\frac{F(1-\hat{F})}{h}}$	
= \[ \] \[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
= 0.0176	
9) margine of error - ME = 2×SE	
$= 1.96 \times 0.0176$ $= 0.0345$	
Edul - Cost - Cost	
: Confidance Interval = 0.475 ± 0.0345	

:. CI = (0,4405,0,5095)

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b) Sample Size Calculation for Destred margin error

2-Score for 95 %. confidence level = 1.56 Margin of error B(E) = 0.02

: Sample Stree (n) =  $(1.96)^2 \times 0.5(1-0.5)$ (0.02)<sup>2</sup>

A THO A

ZUEDIA E

reg' Sample Size = 2401

1 Hypothesis Testing For Average Arm Span

1 Hypothesis test.

Ho: 14 = 160 cm

Alternate Ha: M >160 cm

mean = 200 cm

2= 2-40

8 attodast

In

- 200-160

20 E 0 + 215

J30

- 14.6802.0 20 PHO

P=1/01/02 = 146

for 2 value 14.6 pvalue extreamly small we reject rull hypothesis

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0 95% Confidance interval for average Arm Spun

Stunder empy = 15 T30

= 2.7386

Manyinofernor= 2.5E

= 1.96 × 2.7386

= 5.37

Confidence interval:

CF = 200 + 5.37

Lower limit = 194.63

Upper limit = 205,37