6.
$$SB = 14$$
 $3 = 169$
 $4 = 15$
 $5 = 16$

1.

2.
$$\alpha = 0.10 (90.1.)$$

3. Calculate the Z value.

$$Z = \frac{x - \mu}{\sigma / v_n}$$

$$= \frac{16-15}{14/\sqrt{169}}$$

4. Pralut (ferom the 2 table)

$$P_{(Z=0:92)} = 6.8212$$

$$P = 0.8212 > X = 0.10$$

P(Z) 20010; Reject the mull hypotheses P(Z) 70.10; Accept the Ho hypothese 4 Perform t. pest distribution

Mean
$$\bar{x} = 100.8$$

SD = 1.85

N = 10

V = 10-1 = 9

951. level
$$\alpha = 0.05$$
 8: $\frac{\alpha}{2} = 0.025$

$$\overline{X} - t_{n-1}$$
, $\frac{s}{\sqrt{n}} \leq \mu \leq \overline{X} + t_{n-1}$, $\frac{s}{\sqrt{2}} \leq v_n$

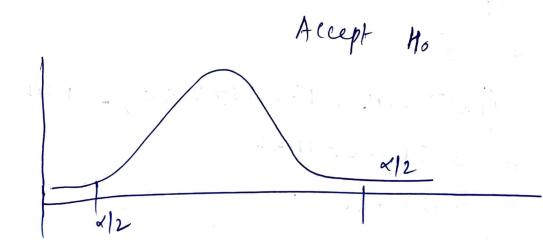
$$100.8 - 2.262 * 1.85 \le \mu \le 100.8 + 2.262 * 1.85$$

3. Ratio of Cample Vacus
$$S_1 = 5^{\circ} 8^{\circ} 3$$

$$F = \frac{5.2}{5.2^2} = \frac{0.797}{0.687}$$

$$V_1 = 10 - 1 = 9$$

$$V_2 = 12 - 1 = 11$$



2. ANOVA:

timancial:

	12
10-76	115.77
15.05	226.50
17.01	289.34
5.07	25.70
19.5	380.25
8.16	66.58
10.38	107.74
16.75	45.56
92.68	1257,44

Energy

	x2
12.72	161.79
13.91	193.48
6.43	41.34
11.19	125.21
18.79	353.06
20.73	429.73
9.6	92.16
17,4	302.76
110.67	1699.53

v ti litie

	X 2
11.88 5.86 13.46 9.9 3.95 3.44	141.13 34.33 181.17 98.01 15.60 11.83 50.55
71.3	246.49

Correction Term.

$$\begin{pmatrix} x = \frac{2}{N} \\ = \frac{2}{N} \\ (92.68 + 110.67 + 71.3) \\ = \frac{24}{24}$$

$$= 274.65 / 24$$

$$= 11.44$$

(1) Sum of Square total:

$$SS1 = \begin{cases} 2x^2 - (x) \\ = (1257.44 + 1699.53 + 779.11) - 11.44 \\ = 3736.08 - 11.44 \\ = 3724.68 \end{cases}$$

[2] Sum of Square among Group
$$SS_{A} = \frac{(\Sigma_{X^{2}})}{n} - C_{X}$$

$$= \left(\frac{92.68^2}{8} + \frac{110.67^2}{8} + \frac{71.3^2}{8} \right) - Cx$$

(3) Sum of Squares within the group.

$$= 3124.68 - 3228.72$$

n of Sum of Squares among the 647

$$MSSA = \frac{JSA}{k-1}$$

$$= \frac{3228.72}{3-1} = 1614.36.$$

F-Ratio!

= 450 30 50.00 68.37

Compare	F-Ratio	(cale	utate	Frale)
Pource of variance	df '	دی	Mss	F Relis
Among groups	K-1 (3-1) M-K (24-3) (321	3228 495	23.6)	68.37
		J		

of (21, 2) = 3.466E = 768.37, $F_{L} = 3.466$

Fratio 7 F-table 68.37 > 3,466 Reject Mo Cuporhesis.

ges, there is a difference in the rate of reducing

2.
$$\bar{x} = 125$$
 $M = 105$
 $SD = 14$
 $h = 25$

$$t = \frac{X - M}{s/v_n}$$

$$t = \frac{125 - 105}{14/v_2s}$$

$$= \frac{20}{3.8} = 7.14$$

3.
$$\lambda = 5.7$$
.

 $df = 25 - 1 = 24$
 $t + able = 1.711$
 $t + able < t + abserved$
 $1.711 < 2.7.14$

Ryect Ho

Mean sales is greater & enhancement worked.