Pop. mean= 9 Sample mean(\bar{x}) = 7.9 Sample size (n) = 50 Ad-dev(σ) = 0.6 Unl of significance = 0.01

$$t = \frac{x - \mu}{\sqrt{n}} = \frac{7.9 - 9}{0.6/50} = -12.9$$

t > too : use reject the Hypothesis

Sample mean = 33.0 Sample size = 70 0 = 5.9min d= 0.05

Given

t= x-12

$$t = 338 - 32.7 = 1.1
59/ $\sqrt{70} = 5.9/8.366$$$

to 1.54

Ho: Any time is 32.7 min calculated t-test value is greater then critical (1.761) Hence we reject Ho at 0.05 LOS

3) No: 72 bests/min= ong rate

H1: an 72 b/m 7 ang rate

#= 72 bpm

 $\bar{X} = 69 \text{ bpm}$ n = 25

0 26.5

× 2 0.05

t= x.h.

 $= \frac{69-12}{6.5/\sqrt{25}} = \frac{-3}{6.5/\sqrt{3}} = \frac{-3}{13} = 2.30$

at for one toiled test with toog is ~-1.782

Since -2.3 7 C-1.782

we reject this hypothesis

```
4)
```

Ho: there is no significant diff. HI: there is significant diff.

> mean = 50+40+48+39+46+48+50+45 +39+44+40+39/12

Fsalus = (SSsales) (°salusor)=

of sales 3 j df months = 2

of intercoron 2 6

df error = (n-1) - dfcales + df mouth + dfinterachion
= -5

\$5-between= $(3*((46.67-42.44)^2+(39.33-42.44)^2+(42.33-42.44)^2)$

= 218.7_

of between= \(\mu - 1 = 3 - 1 = 2 \)

 $S_{\text{within}}^{2} ((50-4667)^{2} + (46-46.67)^{2} + (44-4667)^{2} + (34-34.33)^{2} + --- = 353.33$

dtuithin² N- μ= 9.3 z 6

M Surthing S Swithin & Afwithin = 3533

Feritial = F_(2/6) = 5.143

whereas P value for months is 50.05 there is a value variotion of stat sales.

5) Calculate row means

Calculate column means

now deviation

Cool deviations

Treatment A =
$$9 \frac{plat}{plat}$$

T B = $136 \frac{plat}{plat}$
T C = $17.6 \frac{plat}{plat}$
T D = $21.9 \frac{plat}{plat}$
T E = $16.6 \frac{pp}{plat}$

Treatment deviation

$$d_A = -6.48$$
 $d_B = -1.88$
 $d_C = 2.12$
 $d_D = 6.32$
 $d_E = 1.12$

SSR= 0.0016+ 0.0144 + 0.0016+ 0.0144 + 0.0144+= 0.0476 kgs

DPT = 4

$$MSR = SSR = 0.0406 = 0.0119 \text{ kg/plot}$$

Calculate F-ratio:

F-ROW = 0.0005

0.0025<3.49 hence no significant differences

no significant difference in adeima means.

Kenee Letin ANOVA, no difference