HYPOTHESIS

Company and productivity before training program 50 units

per day & population stat of 5 units

company measures productivity of

The comple HYPOTHESIS TESTINIY (Ztest (Rejection Regio) sandom sample of 30 employees. The sample auxage productivity of 53 units per day.

Company wants to know if new training to know if new training has significantly increased productivity or not Ans Rejection Region Approvach 0 Ho: M=50 Step 1 Ha: 12 > 50 Step 2 signifacre level =) d = 05% =) 0.05 Step 3: checking assumptions (Normality (as n=30, CLT can be applied) pap et known Z test cuitable. € 947: Asters: (alculate Z (bonust into standard normal variation statistic 50 miticans (5/.) Z = 58 - 50 = (3.28)5 V30 find Zualus fox significance lunt 0,05

2 1000

Since our sample statistic is 3.28 inter is more than 1.65, which will fall into rejection region.

1.65

VIII

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That means, we have a strong evidence against null hypothesis.

! And we expect the null hypothesis !

Alternative hypothesis as true.

Which is those is significant moves in

production

Ho: M= 50 X Ha: 4>50 V

Example 2

M=50, n=40, X=49, 6=4.

lays claim any weight: 509m with stop std = 4. organization took sample with size: 40 & the aug weight

Now conduct hypothesis testing to which for hypothesis =) lays weight is not \$ 50 gms.

Ans

Step1: Null hypothesis => HO: 11=50

Allernate hypothesis => Ha: M = 50 (kam bN ho sht)

(Notice that the the significance will be divided at both sides

Step 2 : <= 0.05

Step3 = (Sample size >= 40 (Normal)

O pop 8th V

stepy : Z test is suitable



