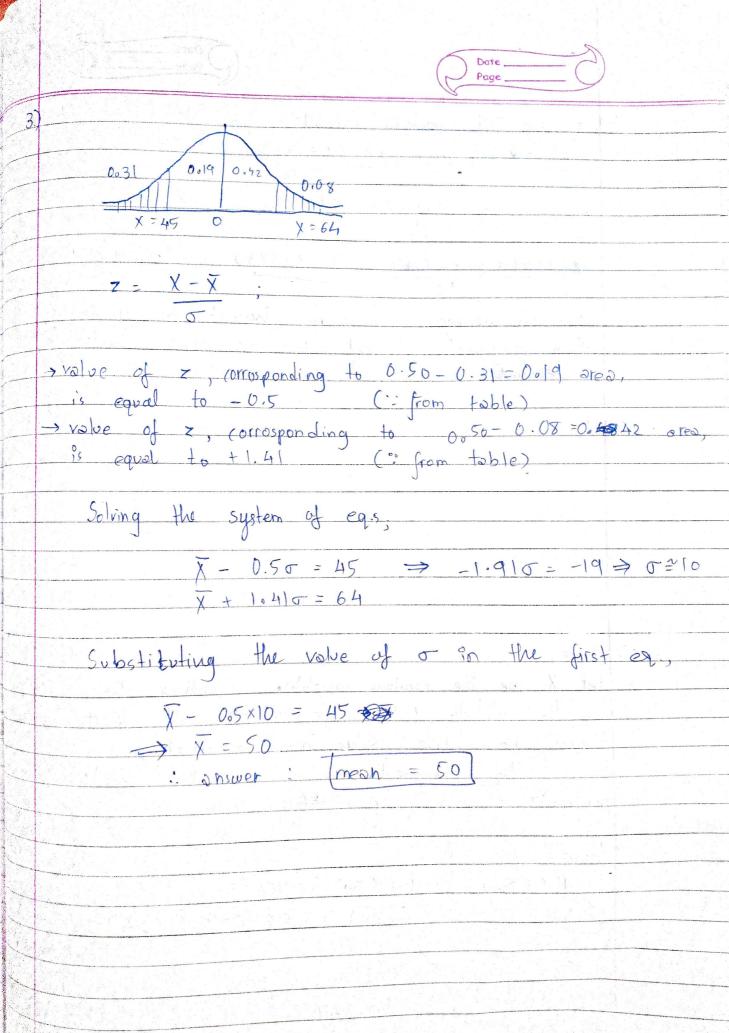
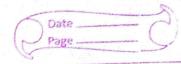
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The trucking firm woots evidence that the claim is wrong.
this is designated as Ho. The complementry statement is designated as Ho. Thus the hypothesis to be tested are
H_0 : $\mu \geq 28000$ vs H_0 : $\mu < 28000$ $\chi = 0.01$ z = 27463 - 28000 = -2.52
$\frac{348}{\sqrt{40}}$ $Z_{\alpha} = Z_{0.01} = -2.326$
50, reject Ho because $z = -2.52 \le z_{0.01} = -2.326$. There is sufficient evidence to doubt the trucking firm's claim.
Score before coaching: 23 20 19 21 18 20 17 23 16 19 24 19 21 18 20 22 20 20 23 20 17
: Mean bof Scores before coaching: $23+20+19+21+18+20+18+17+23+16+19$ $-214/1) = 19.45$
Mean of scores ofter coaching: = 24+19+121+18+20+22+20+20+23+20+17 11 = 224/ ₁ = 20.2436
we can say that coaching is effective.

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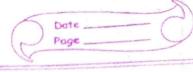




47 average of doctors brights:
(63+965+67+69+71++2) = 68 average of engineer's wight. (161+62+65+66+69+71+72+73) = 600967.66 as an average doctors height is greater than engineer's height we can say that Statement. 5001 5) here, let X be the rondom voriables counting the numbers of the utility bills reduced by at losgs. one-Hird in five solar host installation.

X 17 the binomed random variable with posometes n=5, p= 0006 and 9=1-0.6=0.4 here, P(X > 4) = P(X = 4) + P(X = 5) $= 0.259 + (5) (0.6)^{5} (0.45^{-5})$ = 0.259+ 0.078

= 0.337



here,

n=1000

x = no of rice esters = 540

P = sample proportion of rice esters 540 = 0.59

1000

P = Population proportion of rice esters = 1 = 0.5

Ho = both rice and wheat are equally popular

H = P ≠ 0.5

Z = P = 0.54-0.5 = 20532

TPO/In 10.5 x 0.5

Since complainted x < 2.58 at 1/2 level of significance

Since completed z < 2.58 at 1/, level of significant the refere to is not rejected and the can say conclude that rice and subject are equally popular.