Hypothesis testing Gipotezani tekshirish

Masala:

Kompaniya o'rtacha massasi 450 gramm bo'lgan kalkulyatorlar ishlab chiqaradi. Bir injener bunga ishonmadi va 50ta kalkulyatorlarni tarozida o'lchab ko'rmoqchi.

'Null' va 'alternative' gipotezalarni aniqlang.

- HO(Null hypothesis): μ = 450 gr
- Ha(Alternative hypothesis) μ != 450 gr

Masala (o'quvchilar uchun):

O'qituvchi kamida 80% o'quvchilar imtixondan o'tadi deb hisoblaydi. Ammo bir o'quvchi gipotezani tekshirib ko'rmoqchi. Null va alternative hypothesisni yozing Masala 2

O'qituvchi o'quvchilarning o'rtacha bahosi 2.7dan boshqacha bo'lishini test qilmoqchi. Null va alternative hypothesisni yozing

One-tailed vs two tailed tests

H_a Description **Figure** Population mean is **One-tailed** below the standard Population mean is **One-tailed** above the standard t=1.8 with df=9 Population mean is **Two-tailed** different from the standard

n <30

o is unknown

$$\frac{1}{x} = \frac{1}{x} - \frac{x}{s}$$

n < 30

0 KNOWN

U > 30

Dis Unknown

D>30

o is known

 $Z_c = \frac{\overline{X} - M_o}{S/\sqrt{N}}$

 $Z_{c} = \frac{X - M_{o}}{\delta / \sqrt{N}}$