

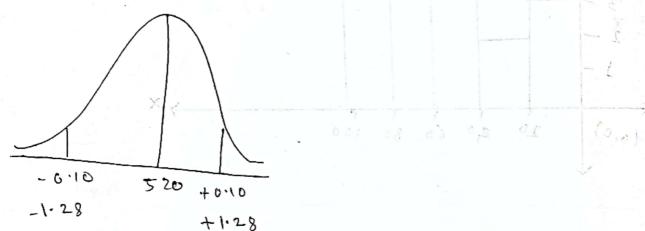
2.2] In award test of the CAT Exam, the population Standard derivation is known to be 100. A sumple of 25 test takes has a mean of 520.

Construct and EI 80010 CI about mean.

point estimate ± margin of crror
point estimate ± Zx12 6

X= point estimate = 520

$$6=10$$
, $d=0.20$, $h=25$ $\frac{1}{2}=0.10$



$$\frac{x}{1.28} \times \frac{10}{525}$$
 $\frac{x}{1.28} \times \frac{10}{525}$
 $\frac{x}{1.28} \times \frac{10}{5}$
 $\frac{x}{1.28} \times 2$
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 $\frac{x}{1.28} \times 2$
 $\frac{x}{10}$
 $\frac{x}{10}$

confidence interval of 8 is (517.44,522.5 8010 C.I = (517.44,522.56) 23) A car company believes that percentage of 23) A car company believes that percentage of citizens in city ABC that owns a vehicle is 60010 citizens. A sales manager disagree with this. He conducted a hypothesis testing-surveying 250 residents and found that 170 residents responded to owning a vehicle

alstale hall and alternative hypothesis.

by At a 10010 significance level, is there enough evidence to support the ridea that we hick owner in city ABC is 60010 or 1088.

Por Po ≥ 0.60 V | 5 H1: Po > 0.60

a] Ho: Po 4 0.60

M1: Po > 0: 60

$$\hat{p} = \frac{x}{h} = \frac{170}{250} = 0.68$$

0.60 0.10

Po= 0.60, 20= 1-0.60= 0.40

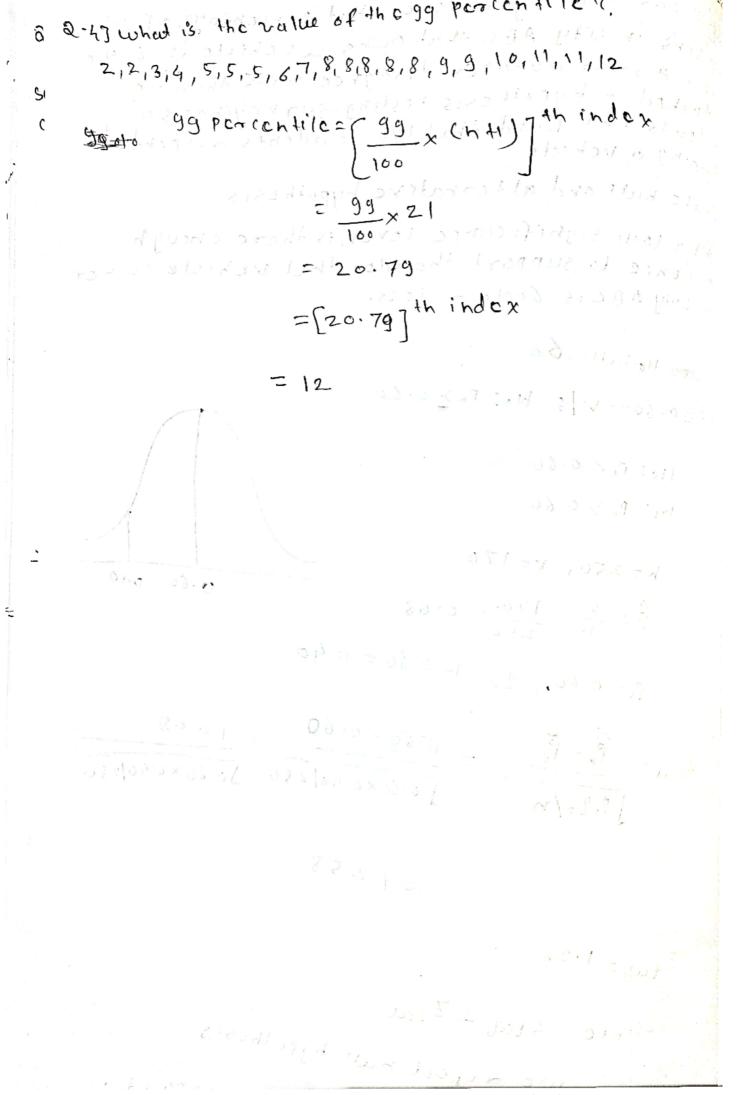
$$Z_{cal} = \frac{\hat{P}_{0} - \hat{P}_{0}}{\int P_{0} 2_{0}/n} = \frac{0.68 - 0.60}{\int 0.60 \times 0.40 | 250} = \frac{+0.08}{\int 0.60 \times 0.40 | 250}$$

1

Since Ztab Z Zcal

: . we reject nut hypothesis

there is no enough evidence to support the idea that rehicle owner in city ABC is bool, or 1885

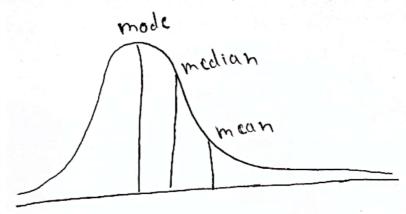


SJIN left and right showed dute, what is the relationship between mean, median and mode.

In right skewed distribution

Mean median

Meanymedianymode



In 1094 skewed distribution

mean Lmadiun Lmode

