Two braced cains are to seed 126 times. HH = 36, TT = 44.

HT = 16 TH = 30.

To find =
$$P(C2 = T | C1 = H)$$
 [Canditional Abbability]

$$P(C2 = T | C1 = H) = \frac{P(HT)}{P(C1 = H)} = \frac{16}{36 + 16} \frac{126}{36 + 16} = \frac{8}{26} = \frac{4}{13}$$

$$= \frac{16}{36 + 16} = \frac{8}{52} = \frac{9}{26} = \frac{4}{13}$$

$$= 0.308.$$

Test = the Battery reject

Ret = -he Battery accepted.

Ret X & a and Y be the exercise that the battery is dependent and now dependent.

A be the event is the, Chaircard)

B be that " " " " -40. (act)

B be that " " " -40. (act)

P(X) = $\frac{2.27}{100}$, P(Y) = $\frac{43.73}{100}$.

P(B|X) = $\frac{3.19}{100}$, P(A|Y) = $\frac{8.21}{100}$.

To find = P(Y|A) P(A|X) = $\frac{94.81}{100}$.

$$X = mean = 450.3°C$$

$$\Gamma = Variance = 1.0$$
.

$$Z = \left| \frac{\overline{X} - \mu}{\sqrt{\sqrt{N}}} \right|^{2} = \left| \frac{0.3}{1.250\sqrt{24}} \right|^{2} = \frac{0.3}{2\sqrt{6}}$$

$$d = 0.05$$

