Assignment on central Limit Theorem

$$D = 9-10 = -2.5$$

$$V_{100} = 0.0062$$

$$9 = 96, \tau = 16, \eta = 35$$

$$Z = 98 - 96$$

$$\frac{16}{\sqrt{3}5} = 0.0739$$

$$1 - 0.7673$$

$$= 0.2327$$

(3)
$$M=6$$
, $\sigma=1$
a) $P(x62) = \frac{6\cdot 2-6}{\sqrt{7}}$
 $= 0\cdot 2$
 $= 0\cdot 5793$
b) $Z = 6\cdot 2-6 = 2$
 $\sqrt{100} = 0.97$

$$= 0.2327$$

$$= 0.2327$$

$$A = 268, T = 15, D = 25$$

$$Z = 260 - 268$$

$$= 15$$

$$\sqrt{15}$$

$$= -8 = -8$$

$$= 0.2$$

$$= 0.5793$$

$$= 0.5793$$

$$= 0.2 - 6$$

$$= 0.2 - 6$$

$$= 0.0039$$

$$P(>190 - 172)$$

$$= 190 - 172$$

$$= 0.9772$$

1-0.7324

= 10.2676

b)
$$n=25$$

$$P(>190) = 190 - 172$$

$$\frac{29}{\sqrt{25}}$$

$$= 18 \times \frac{5}{29}$$

$$= 3.103$$

$$= 0.9990$$

$$P(727) = \frac{27 - 23.1}{3.1}$$

$$= 3.081$$

$$= 0.9990$$

$$\Rightarrow 1 - 0.9990$$

$$= 0.001$$

(2)
$$M = 21.50$$

 $N = 8$
 $\sigma = 2.22$

$$Z = \frac{20 - 21.50}{2.22}$$

$$\frac{2}{\sqrt{8}}$$

$$= \frac{20 - 21.50}{\sqrt{8}}$$

$$= \frac{20 - 21.50}{\sqrt{8}}$$

$$= 0.0281 = 0.9719$$

$$= 0.0281 \Rightarrow 1-0.9719$$

$$= 0.0281 \Rightarrow 0.0281$$

$$= 0.09719 = 0.0281$$

(13)
$$M = 75$$

 $\nabla = 5$
a) P(atleast 83)

$$\mu = 2.3$$

$$Z = \frac{27 - 28.3}{2.3}$$

18) what do u mean by suits earally