Quiz 3.
Time
$$N(3.65, 0.004)$$

 $P(X > 3.5) = P(Z > \frac{3.5 - 3.65}{J_{0.004}})$
 $P(X > 3.5) = P(Z > \frac{3.5 - 3.65}{J_{0.004}})$
 $P(X > 3.5) = P(X > \frac{36.3 - 36.5}{J_{0.04}})$
 $P(X > 3.5) = P(X < 36.3) = P(X < 36.3 - 36.5)$
 $P(X > 3.5) = P(X < -1) = 0.1587$

$$P(\frac{54000}{2} \times i) > 95,800) = P(\frac{2}{2} > \frac{95800-9000}{119200})$$

$$P(\frac{54000}{2} \times i) > 95,800) = P(\frac{2}{2} > \frac{75800-9000}{119200})$$

$$= P(\frac{2}{2} > \frac{2500}{80\sqrt{3}})$$

$$= P(\frac{2}{2} > \frac{25/\sqrt{3}}{2})$$

$$P(\frac{2}{2} > \frac{24.5 - 28.2}{25.2 \times 0.53})$$

$$= P(\frac{2}{2} > \frac{24.5 - 28.2}{25.2 \times 0.53})$$

WS 5. Q4.

$$\sim N(M, 3^2)$$

To est M , $n=?$ Such that the end
 $< | . at 98\%$.
 $3 \approx \sqrt{n} \leq E$
 $= \frac{2.326^2.9}{1}$
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$$\frac{3}{2} \frac{\sqrt{n}}{\sqrt{n}} \leq \frac{2}{\sqrt{2}}$$

$$= \frac{2.326^2 \cdot 9}{1}$$

N > 3 P 205 0.57.043

$$= \frac{3}{5} - \frac{9}{16} = \frac{15}{80} = \frac{3}{80}$$

$$\frac{80}{5} \times i \times N(NM, N0^{2})$$

$$= \frac{3}{5} - \frac{9}{16} = \frac{15}{80} = \frac{3}{80}$$

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$$= \frac{3}{160} = \frac{3}{160}$$

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 $X \sim N(\frac{4}{3}, \frac{80}{3/80} - \frac{6400}{3})$ $\leq \frac{85}{85}$