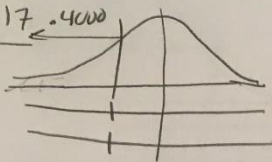


pg 317

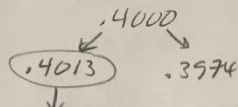
(23)



$$\mu = 12$$

$$\sigma = 3$$

40% $\rightarrow$ 40%
 $\rightarrow .40 \rightarrow .4000$



$$z = -0.25$$

$z =$

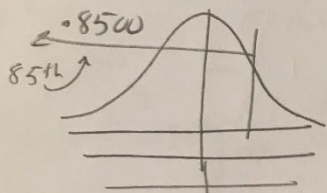
$$z = \frac{x - \mu}{\sigma} \Rightarrow -0.25 = \frac{x - 12}{3} \Rightarrow x - 12 = (-0.25)(3)$$

$$\Rightarrow x - 12 = -.75$$

$$\Rightarrow x = \boxed{11.25}$$

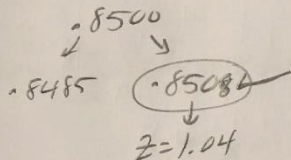
pg 1 no

(24) (I'll work the
 EVEN NUMBERED PROBS)



$$\mu = 56$$

$$\sigma = 8$$

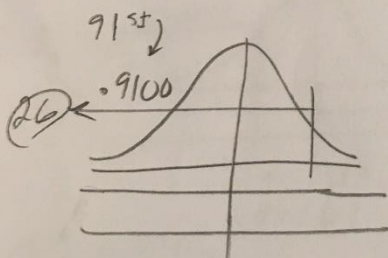


$$z = 1.04$$

$$z = \frac{x - \mu}{\sigma} \Rightarrow 1.04 = \frac{x - 56}{8}$$

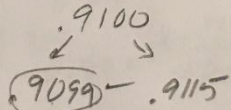
$$\Rightarrow x - 56 = (1.04)(8) \Rightarrow x - 56 = 8.32$$

$$\Rightarrow x = \boxed{64.32}$$



$$\mu = 71$$

$$\sigma = 33$$

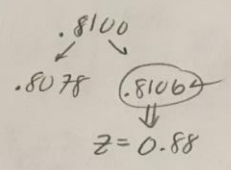
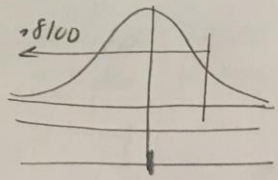


$$z = 1.34$$

$$z = \frac{x - \mu}{\sigma} \Rightarrow 1.34 = \frac{x - 71}{33} \Rightarrow x - 71 = (1.34)(33)$$

$$\Rightarrow x = \boxed{115.22}$$

30 a)



pg
240

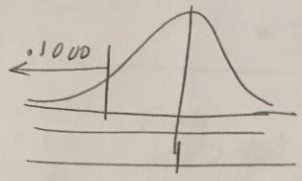
$\mu = 11.5$
 $\sigma = 2.7$

so

$$0.88 = \frac{x - 11.5}{2.7} \Rightarrow x - 11.5 = (0.88)(2.7) = 2.376$$

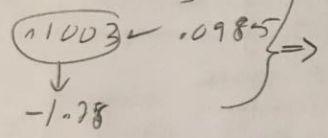
$$\Rightarrow x = \boxed{13.876}$$

b)



$\mu = 11.5$
 $\sigma = 2.7$

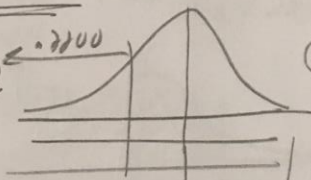
0.1000



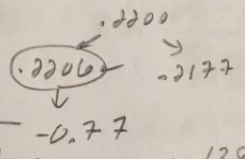
$$-1.28 = \frac{x - 11.5}{2.7} \Rightarrow x - 11.5 = (-1.28)(2.7) = -3.456$$

$$\Rightarrow x = \boxed{8.044}$$

34 a)



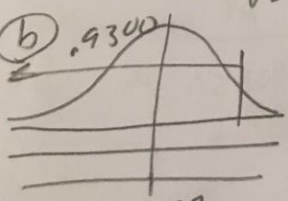
$\mu = 1387$
 $\sigma = 161$



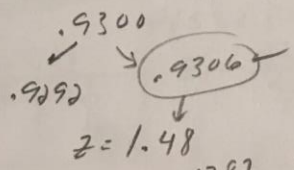
$$-0.77 = \frac{x - 1387}{161} \Rightarrow x - 1387 = (-0.77)(161) = -123.97$$

$$\Rightarrow x = \boxed{1263.03}$$

b)



$\mu = 1387$
 $\sigma = 161$



$$1.48 = \frac{x - 1387}{161} \Rightarrow x - 1387 = (1.48)(161) = 239.28$$

$$\Rightarrow x = \boxed{1625.28}$$