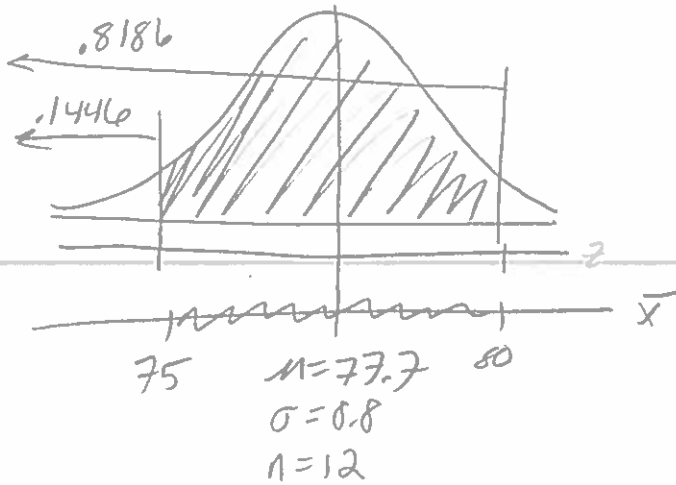


Corrections:

pg 1re

#8 $P(75 < \bar{x} < 80)$



$$z_1 = \frac{75 - 77.7}{0.8/\sqrt{12}}$$

$$= -1.06$$

TABLE
VALUES

$$\rightarrow .1446$$

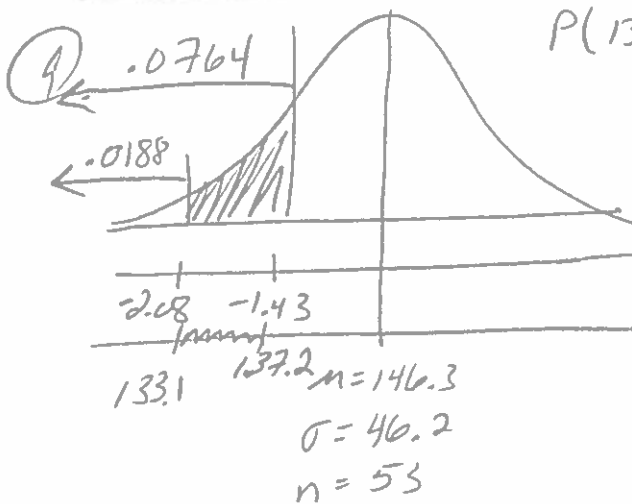
$$z_2 = \frac{80 - 77.7}{0.8/\sqrt{12}}$$

$$= 0.91$$

$$\rightarrow .8186$$

$$\therefore P(75 < \bar{x} < 80) = .8186 - .1446$$

$$= \boxed{.6740}$$



$P(133.1 < \bar{x} < 137.2)$

$$z_1 = \frac{133.1 - 146.3}{46.2/\sqrt{53}}$$

$$= -2.08$$

TABLE
VALUES

$$\rightarrow .0188$$

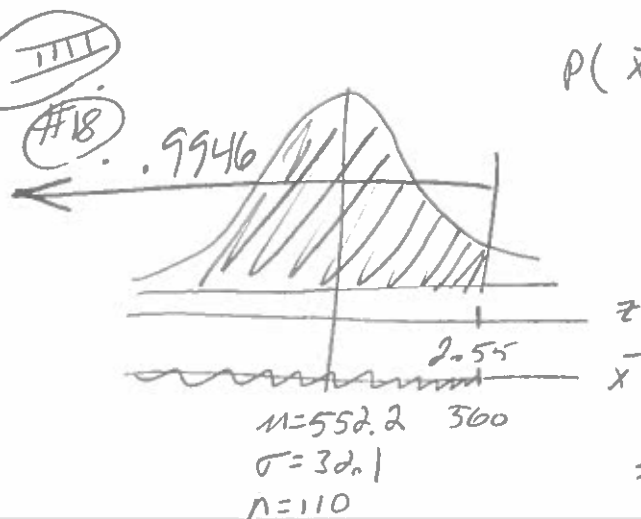
$$z_2 = \frac{137.2 - 146.3}{46.2/\sqrt{53}}$$

$$\rightarrow .0764$$

$$\therefore P(133.1 < \bar{x} < 137.2) = .0764 - .0188$$

$$= \boxed{.0576}$$

$P(\bar{x} < 560)$



$$z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$$

$$= \frac{560 - 552.2}{32.1 / \sqrt{110}}$$

TABLE
VALUES

$$= 2.55$$

$\rightarrow .9946$

so $P(\bar{x} < 560) = .9946$

$P(543 < \bar{x} < 547)$

$$z_1 = \frac{543 - 552.2}{32.1 / \sqrt{110}}$$

TABLE
VALUES

$$= -3.01$$

$\rightarrow .0013$

$$z_2 = \frac{547 - 552.2}{32.1 / \sqrt{110}}$$

$$= -1.70 \rightarrow .0446$$

so $P(543 < \bar{x} < 547) = .0446 - .0013 = .0433$

$P(\bar{x} > 545)$

$$z = \frac{545 - 552.2}{32.1 / \sqrt{110}}$$

TABLE
VALUES

$$= -2.35$$

$\rightarrow .0094$

so $P(\bar{x} > 545) = 1 - .0094 = .9906$

$P(550 < \bar{x} < 560)$

$$z_1 = \frac{550 - 552.2}{32.1 / \sqrt{110}}$$

TABLE
VALUES

$$= -0.72$$

$\rightarrow .2358$

$$z_2 = \frac{560 - 552.2}{32.1 / \sqrt{110}}$$

$$= 2.55$$

$\rightarrow .9946$

so $P(550 < \bar{x} < 560) = .9946 - .2358 = .7588$

