

$$4. 121.28 \quad 1 = \frac{x - 107.57}{13.71} \Rightarrow x = 121.28$$

$$5. \quad z = \frac{x - \mu}{\sigma}$$

$$= \frac{140 - 107.57}{13.71}$$

$$= 2.3654$$

$$6. \quad \mu + 1.5\sigma$$

$$107.57 + 1.5 \times 13.71$$

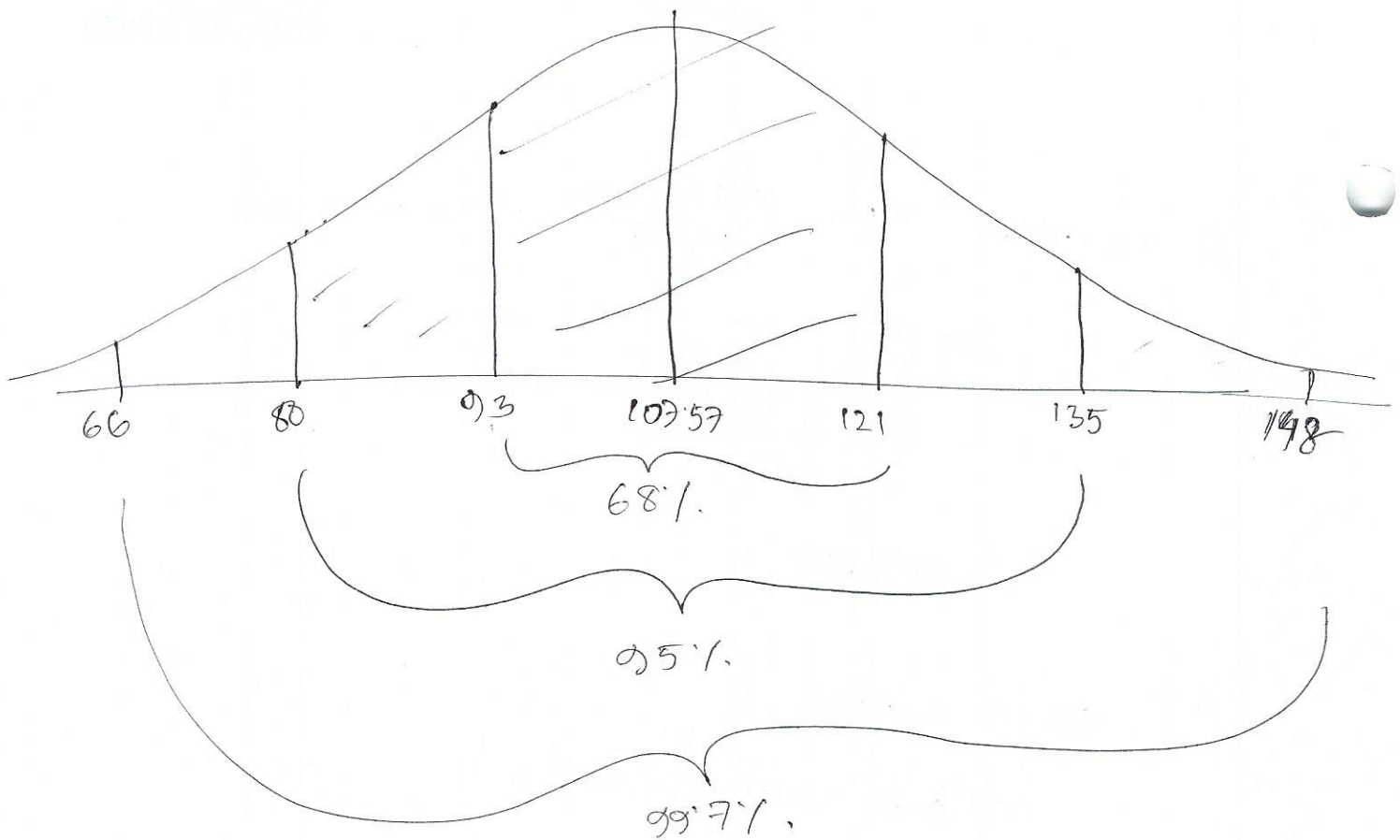
$$= 128.135$$

$$7. \quad \mu - 0.4\sigma$$

$$= 107.57 - 0.4 \times 13.71$$

$$= 102.086$$

z-score's is the number of standard deviation from the mean.



What % of scores do you expect above 135?

→ 2.5% .

What % is between 80 & 93?

$16\% - 2.5\% = 13.5\%$.

Explanatory variable

explain changes in response (x)

Response variable, the changing output.

