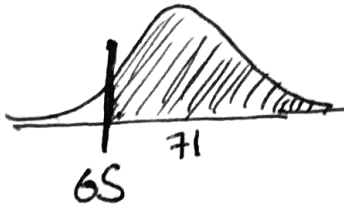


$$\text{Avg} = 71$$

$$\text{SD} = 6.8$$

- Guide only
- Check all math
- No guarantees.

A) At least 65

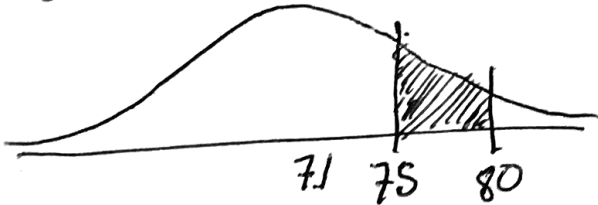


$$Z = \frac{65 - 71}{6.8} \quad Z = -.88$$

$$\text{Prob} = (1 - .1894)$$

$$\text{Prob} = \underline{\underline{.8106}}$$

B) Between 75 and 80



$$Z = \frac{75 - 71}{6.8} = .59$$

$$Z = \frac{80 - 71}{6.8} = 1.32$$

$$Z = .59, \text{ prob} = .7224$$

$$Z = 1.32, \text{ prob} = .9066$$

$$\text{Answer: } .9066 - .7224$$

$$= \underline{\underline{.1842}}$$

C) TOP 13%

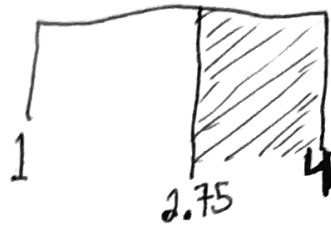
$$Z = 1.13$$

$$1.13 = \frac{X - 71}{6.8}$$

$$6.8 \times 1.13 = X - 71$$

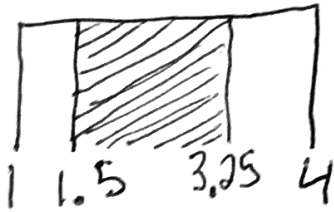
$$X = \underline{\underline{78.684}}$$

2A



$$= \frac{4 - 2.75}{4 - 1} = .4167$$

2B



$$= \frac{3.25 - 1.5}{4 - 1} = .5833$$