invnorm (area, 0, 1)

Ex. 2: The Wechler Adult Intelligence Test Scale is composed of a number of subtests. On one subtest, the raw scores have a mean of 35 and a standard deviation of 6. Assuming the raw scores form a normal distribution:

a. What percentage of raw scores are between 31 and 41?

$$Z = \frac{31-35}{6} = -0.67 \text{ (LB)}$$
 $Z = 41-35 = 1 \text{ (UB)}$

b. What score represents the 95th percentile?

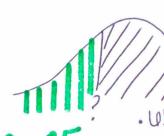
** Hint: Can you do this by hand or do you have to use your calculator?



$$1.04 = X - 35$$

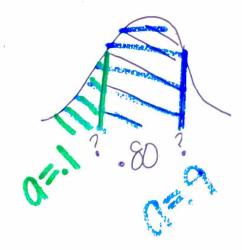
$$X = 44.84$$

15/. $\rightarrow 0 = 0.45$ c. What score represents the 65 percentile?



$$-0.39 = \frac{X-35}{10}$$

d. What scores represent the middle 80%?



$$Z = -1.28$$

$$-1.28 = \frac{X - 35}{6}$$

$$X = 27.32$$

- D find area (always from left)
- 2) invinorm to get Z-SCOre
- 3) find data w z-score equation

$$Z=1.28$$
 $1.28 = X-35$
 U
 $X=42.08$

scores between 27.32 : 42.68