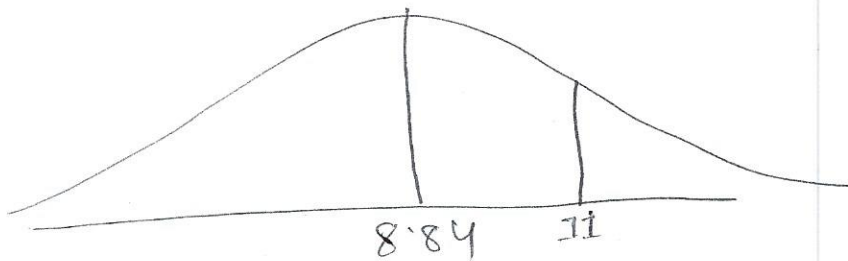


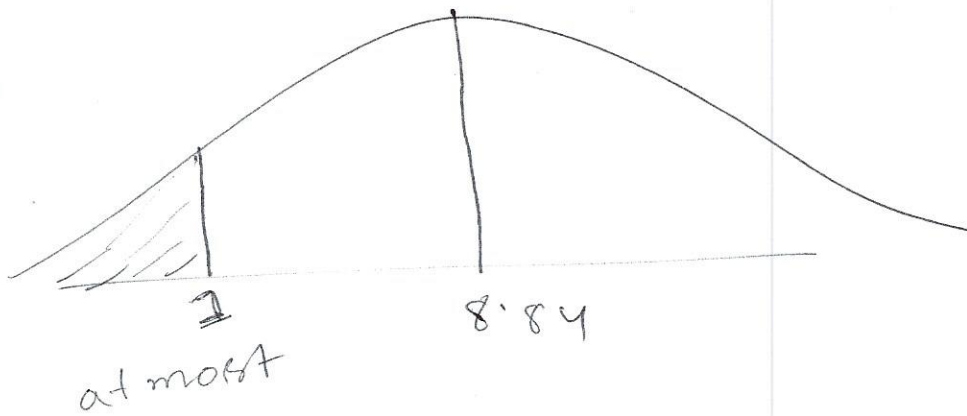
05/06/2019

Final Exam Review

8. a) 52% of 17 = $.52 \times 17 = 8.84$ people



b)



2) a) $5, 5, 5, 5, 5$ $\bar{x} = 5$

b) $3, 3, 3, 3, 3$ $\bar{x} = 3$ $s + dev = 0$

c) $\{3, 3, 3, 3, 3\}$

$\{3, 4, 3, 2, 3\}$

$$4. a) \frac{43}{178}$$

$$b) \frac{74}{178}$$

$$c) \frac{20}{178}$$

$$d) \frac{8+15+9+17+32+28}{178} = \frac{109}{178}$$

$$e) P(31-55 | N) = \frac{\frac{28}{178}}{\frac{49}{178}} = \frac{28}{49}$$

f) disjoint - Not together.

$$g) P(55 | own VCR) = P(55)$$

$$= \frac{20}{87} \neq \frac{43}{178}$$

5. Mean.

$$E(x) = \sum x P(x).$$

$$= (0 \times .33) + (1 \times .16) + (2 \times .06) + (3 \times .04) + (4 \times .01)$$

$$= 0 + .16 + .12 + .12 + .04$$

$$= .44$$

$$10. b) z = \frac{\bar{x} - \mu}{\sigma/\sqrt{n}}$$

$$a) z = \frac{7.5 - 8.3}{2.1}$$

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

$$H_0: \mu = 8.3$$

$$H_a: \mu > 8.3$$

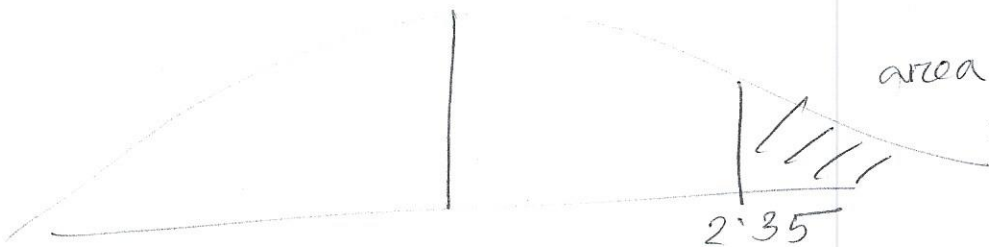
$$\sigma = 2.1$$

$$\bar{x} = 9$$

$$n = 50$$

$$z = \frac{9 - 8.3}{2.1/\sqrt{50}}$$

$$z = 2.35$$



area < 0.05 ?

If so reject

