

CONFIDENCE INTERVAL FOR μ , $\mu_1 - \mu_2$.

Slide 8

10 yrs $\mu_1 = ?$ 1 yr $\mu_2 = ?$

$$n_1 = 16$$

$$\bar{x}_1 = 6.82$$

$$s_1 = 0.64$$

$$n_2 = 10$$

$$\bar{x}_2 = 6.25$$

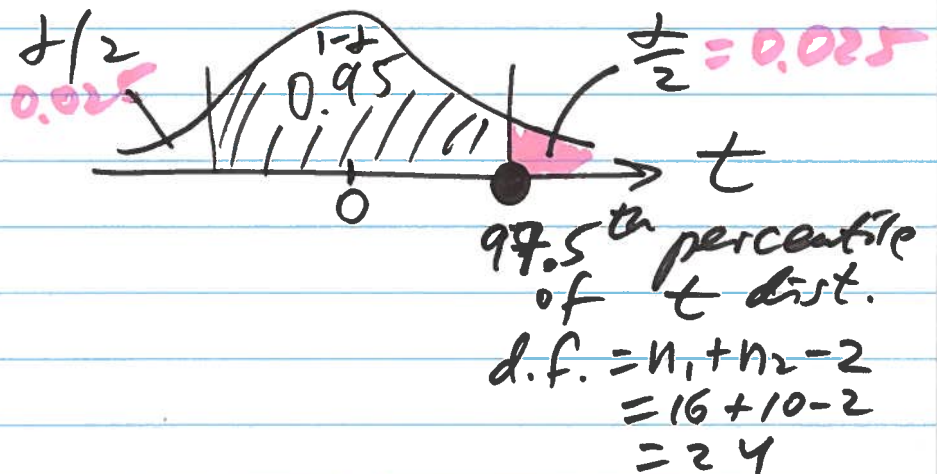
$$s_2 = 0.75$$

95%

$$(\bar{x}_1 - \bar{x}_2) \pm t_{\alpha/2} \cdot \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

d.f. = $n_1 + n_2 - 2$

$$(6.82 - 6.25) \pm 2.0639 \cdot \sqrt{\frac{0.64^2}{16} + \frac{0.75^2}{10}}$$



$$0.57 \pm 0.59$$

$$(-0.02, 1.16)$$

NO, insufficient evidence that consultants with more experience provide better service (in terms of average satisf. rating).

