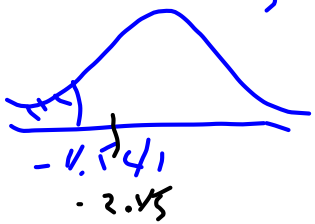
1) $H_a: m_d < \mu_d$

$H_0: m_d = \mu_d$ (0)

2) $\underline{t}$-test, $df = 3$

3) $\underline{t}(3) = -4.541$, $\alpha = .01$, 1-tailed



4) $t = -2.45$

5) $-2.45 > -4.541$ ∴ inconclusive

$\underline{t}(3) = -2.45$, $p > .01$, $d = -1.23$

	2007	2008	d.f	(X-M)	Sq.
F	9	2	-7	-2	4
M	10	4	-6	-1	1
B	8	9	1	6	36
S	9	1	-8	-3	9
			-5		SS = 50

$M_d = -5$

$t = \frac{M_{d.f}}{SE_{d.f}}$

$SD_{d.f} = \sqrt{\frac{50}{3}}$

$= 4.08$

$t = \frac{-5}{2.04} = -2.45$

$SE_{d.f} = \frac{4.08}{\sqrt{4}}$

$= 2.04$

$d = \frac{-5}{4.08} = -1.23$