Ex. A

(1) Diff in mean = 42.2 - 41.2 = 1

(2) $SE = \sqrt{\dfrac{(11.4)^2}{82} + \dfrac{(12.8)^2}{343}} = 1.44$

(3) $t = \dfrac{1}{1.44} = 0.70$

(4) $0.70 < 1.96$

Ex. B

1) Diff in mean = $4.02 - 3.97 = 0.05$

2) $SE = \sqrt{\dfrac{(0.92)^2}{438} + \dfrac{(0.89)^2}{463}} = 0.6$

3) $t = \dfrac{0.05}{0.6} = 0.83$

4) $0.83 < 1.96$

Ex C

(1) Diff in mean $= 49.5 - 47.8 = 1.7$

(2) $SE = \sqrt{\dfrac{(7.7)^2}{127} + \dfrac{(10.3)^2}{343}} = 0.88$

(3) $t = \dfrac{1.7}{0.88} = 1.93$

(4) $1.93 < 1.96$