1 t-test, Welch test, MW +1 evor rate, power CUPED, shatification diff-in-diff & matching (9) Pootstrapping

$$C_{\omega}^{2} \left(\frac{1}{60}\right)^{2} \cdot \left(\frac{59}{60}\right)^{58} = P(N=2)$$

$$t = \frac{\overline{X_a - X_b}}{\mathscr{L}(\overline{X_a} - \overline{X_b})} \sim t$$

$$t^{W} = \frac{\overline{x}_{\alpha} - \overline{x}_{e}}{Se(\overline{x}_{\alpha} - \overline{x}_{e})} \sim t_{v}^{\lambda}$$

$$SC(\overline{\chi_c-\chi_6}) = \sqrt{\frac{S_A}{h_A} + \frac{S_B}{h_F}}$$

$$= \frac{840/17}{18} + \frac{620/11}{12}$$

$$Von \left( \sum (x_i - \overline{X})^2 \right) =$$

$$2 \cdot 3^2 \cdot (20 - 1)$$

$$C_{1=2-1}^{3=4-1}$$

$$(b) = (1) = h_1 \cdot h_2$$

$$y_{i} = \lambda + \beta + 2i + 9 \cdot \lambda i + \epsilon_{i}$$

$$y_{i} = \lambda + \beta + 2i + 4i \cdot \lambda i + \epsilon_{i}$$

$$y_{i} = y_{i} - \Theta x_{i}$$

$$\lambda + t - t_{eft} \quad for \quad y_{i}$$

$$\hat{\omega}(2,7) = \hat{\omega}(y - \hat{\lambda}, -\hat{\lambda}_{i}, \chi) = \hat{\omega}(y,7) - \hat{\lambda}_{i} \hat{\omega}(x,7) = \hat{\omega}(y,7) - \hat{\lambda}_{i} \hat{\omega}(x,7) = \hat{\omega}(x,7) = \hat{\omega}(y,7) - \hat{\omega}(x,7) = \hat{$$

$$= cov(y, z) - \frac{cov(y, x)}{Von(x)} \cdot cov(x, z)$$