

| Tape id | Brand | Cost |
|---------|-------|------------|
| | A | High & low |
| | B | High & low |
| | C | High |
| | D | High |

$n = 24$ obs

6 groups w/4 replicates in each group

$$V = 0.25$$

i.) power

.01

1 unit diff b/w groups

$$n \approx \frac{4 \cdot t^2 MS_E \sum w_i^2}{2}$$

$$n \approx \frac{4 \cdot 2^2 (0.25) (1^2 + (-1)^2)}{2^2}$$

width

$$n \approx \frac{4 \cdot 4 (0.25) \cancel{2^2} 2}{4}$$

$$\approx \frac{8}{4} = 2$$

$$t^* = 2.447$$

6 groups
df = 6

$$n \approx \frac{4 (2.447)^2 (0.25) (2)}{2^2}$$

$$\approx 2.99$$

$$n = 3$$