

## Weighted Average

Session 61

$$\bar{w} = \frac{\int_{-1}^3 w(4-(w-1)^2) dw}{\int_{-1}^3 (4-(w-1)^2) dw} = \frac{10 \cdot \frac{2}{3}}{10 \cdot \frac{2}{3}} = 1$$

$$\bar{y} = \frac{\int_0^4 y(2\sqrt{y}) dy}{\int_0^4 2\sqrt{y} dy} = 2.4$$