

$$= \frac{1}{1} (40.50)^{2}$$

$$= 10^{\circ}$$
Variance $((2) = \frac{1}{n} + \frac{h}{1=1} (y-\bar{y})^{2}$

$$= \frac{1}{4} \left[(42-50)^{2} + (52-50)^{2} + (60-50)^{2} + (56-50)^{2} \right]$$

Number of samples in child node

Variance Reduction

$$= 608 - \left[\frac{1}{8}, \times \frac{20}{5} + \frac{4}{5} \times 51 \right]$$

Variance Reduction = 0

Variance Redunn (Reff Spir) VR (Right Spirt)

Left Tree

Test da

Nide
$$\underbrace{0|P}_{=} = \begin{bmatrix} 40 + 42 \\ \hline 2 \end{bmatrix}$$

$$= 41$$

Desim Trec <u>017</u> Reg <u>52+60+56</u> = <u>\$6</u> 3