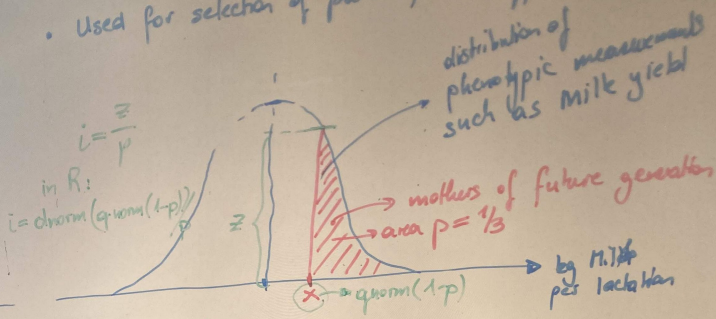


- Used for selection of parents, what happens?



- Select top $1/3$ of cows

- How should this strategy of phenotypic selection be used on Bulls?

⇒ Wait until bull has daughters and then select based on daughters

- Selection response (R):

$$R = \frac{i \cdot r \cdot \sigma_A}{L}$$

i : selection intensity

r : accuracy - for phenotypic selection is equal to the square root of heritability

σ_A : genetic standard deviation

L : Generation interval

eg. Males: $R_{\text{kg}} = \frac{1.02 \cdot 0.5 \cdot 200}{3} \approx 34 \text{ kg}$

Bulls: $R_{\text{kg}} = \frac{1.02 \cdot 0.5 \cdot 200}{6} \approx 21 \text{ kg}$