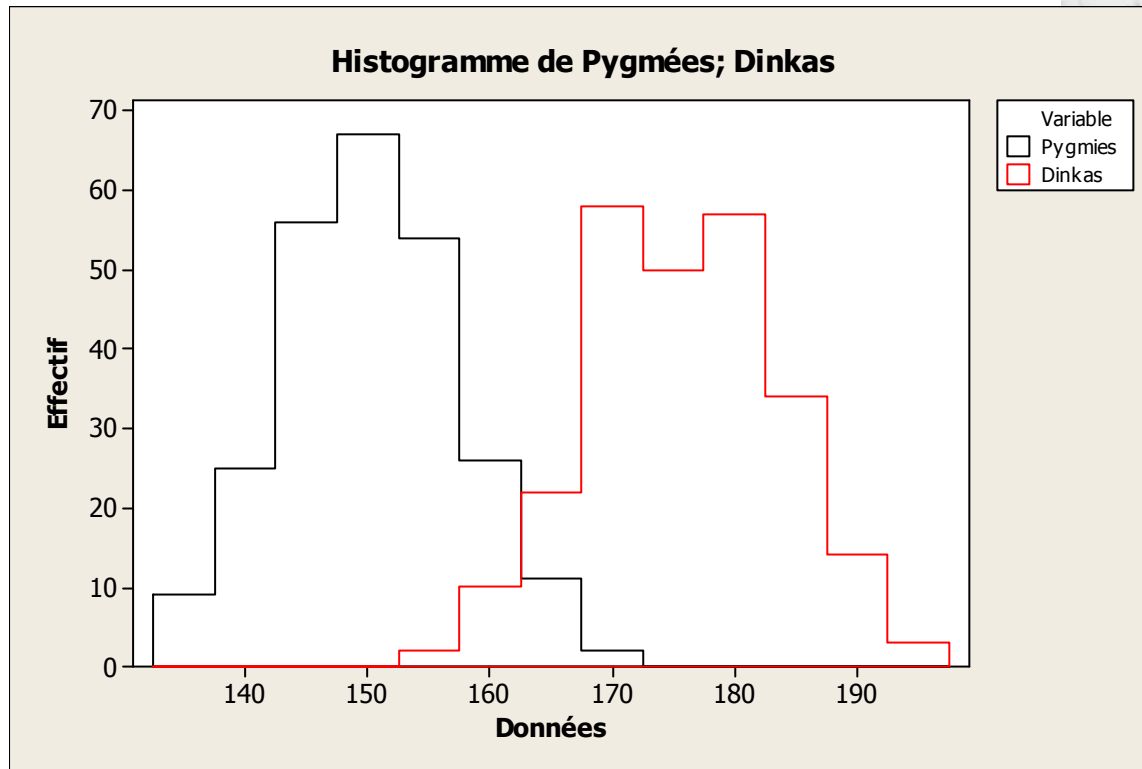


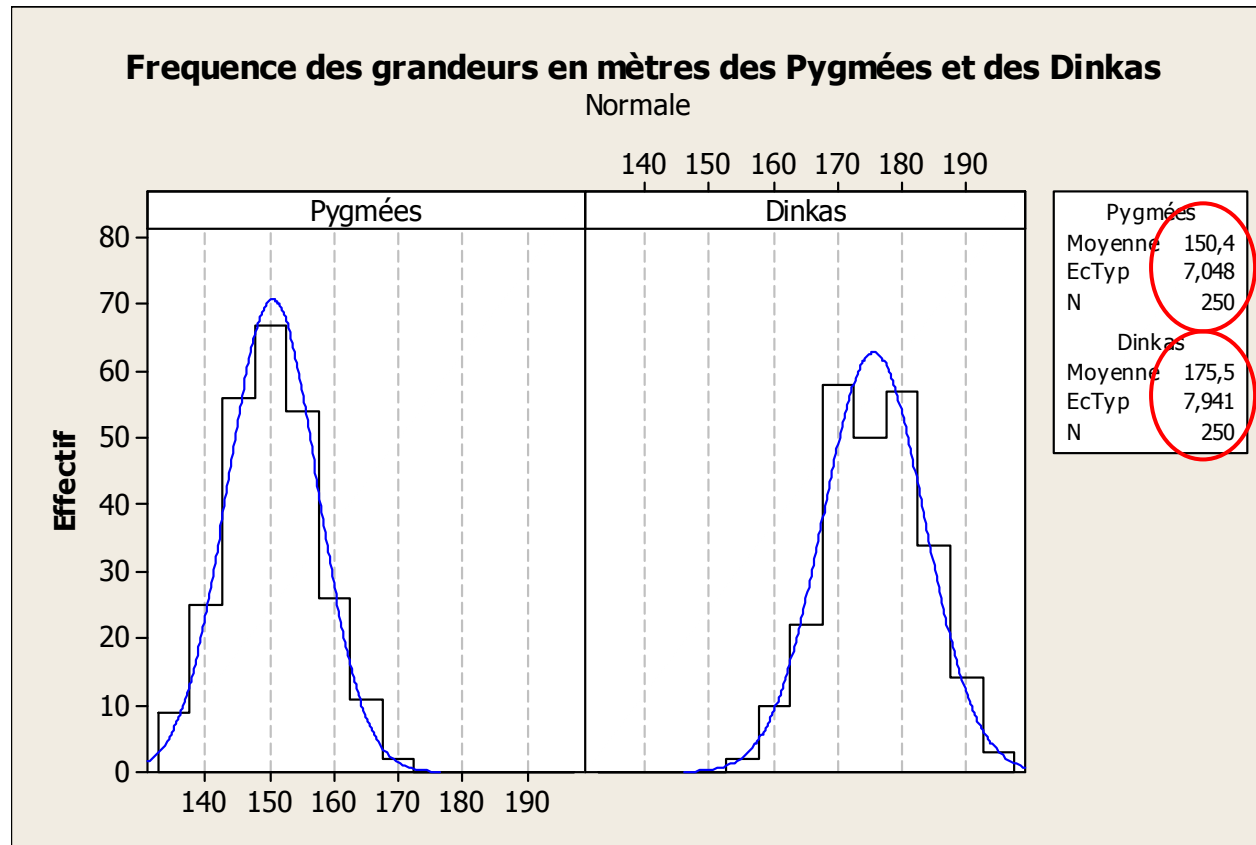
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# Le Test-t et $\alpha$ -alpha et $\beta$ -beta

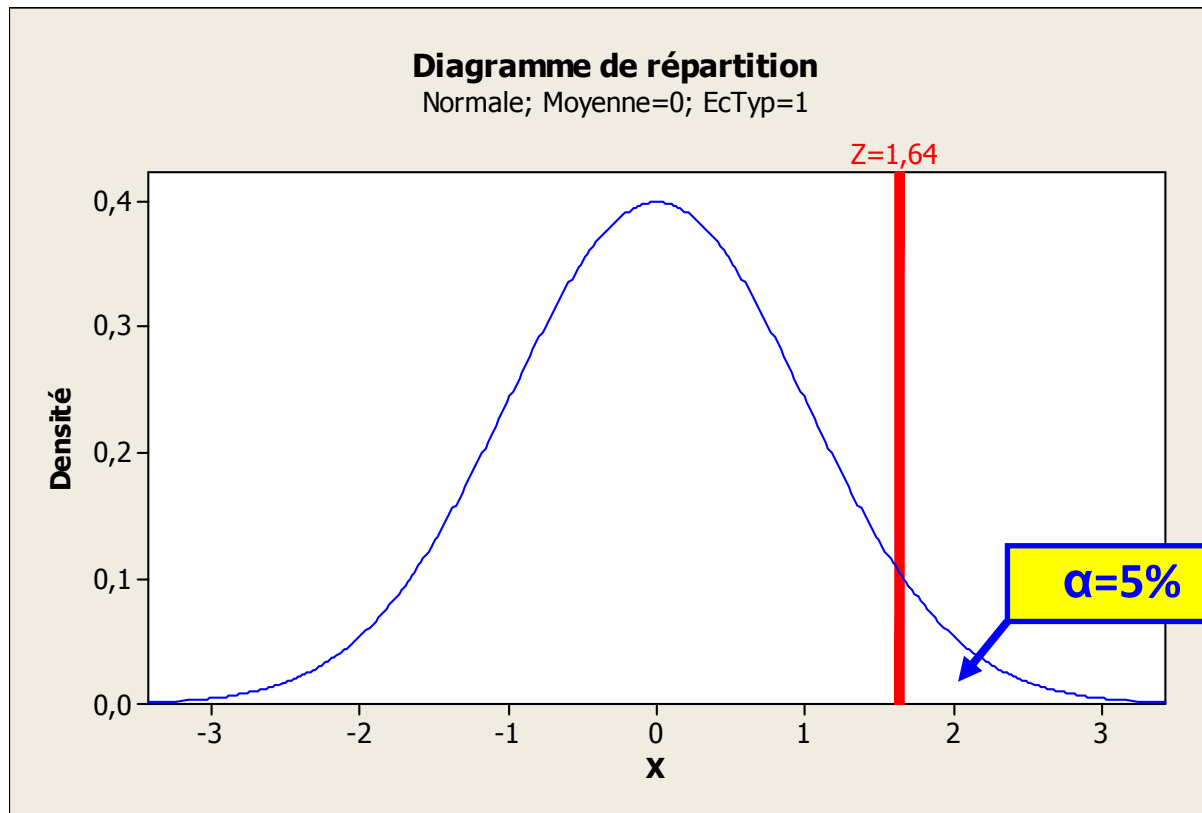
# Utiliser la grandeur pour distinguer entre Dinkas et Pygmées



# Nous pouvons utiliser la grandeur afin de départager les Dinkas des Pygmées



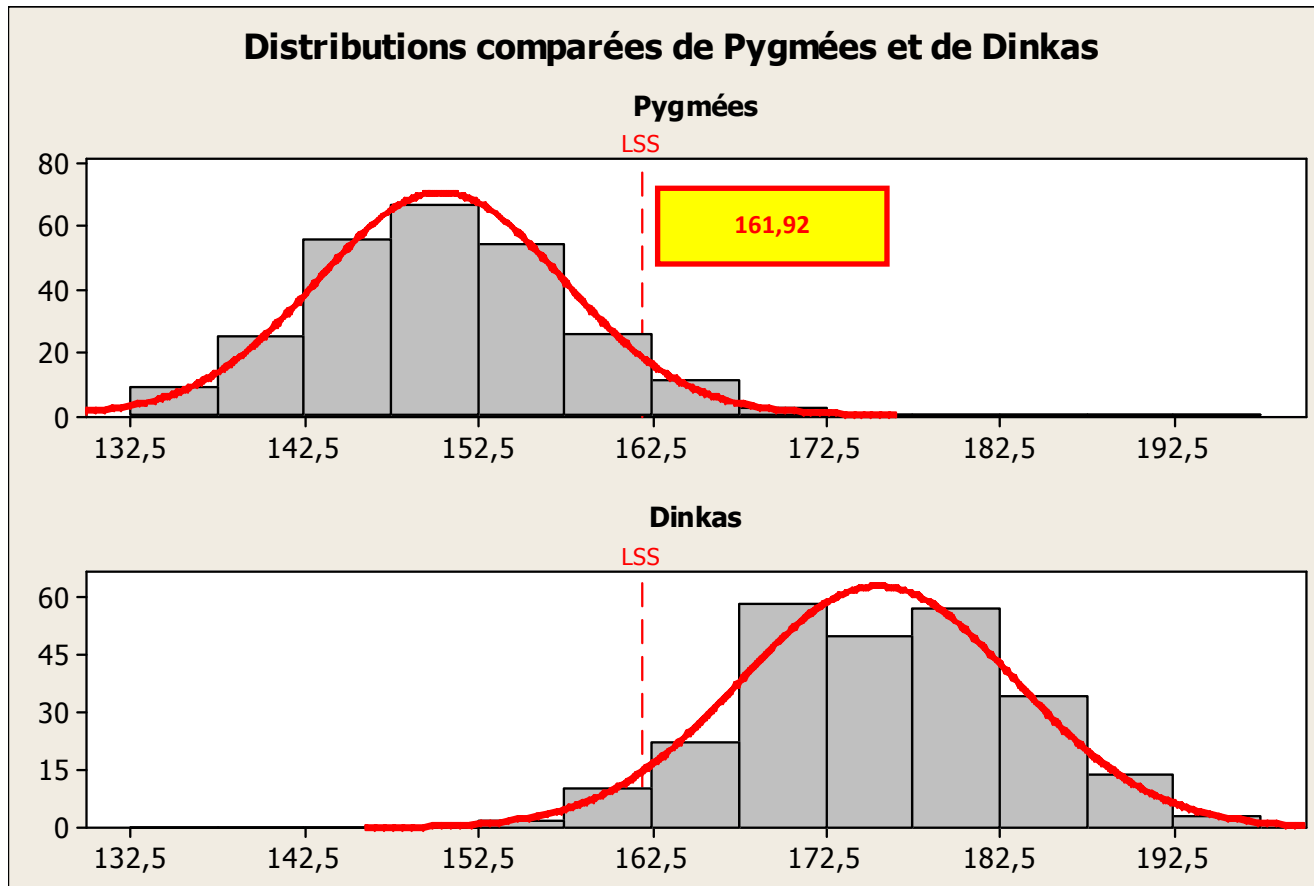
Nous choisissons d'être à 95% sûrs de nos choix, ce qui met la LSS à 161,92 mètres



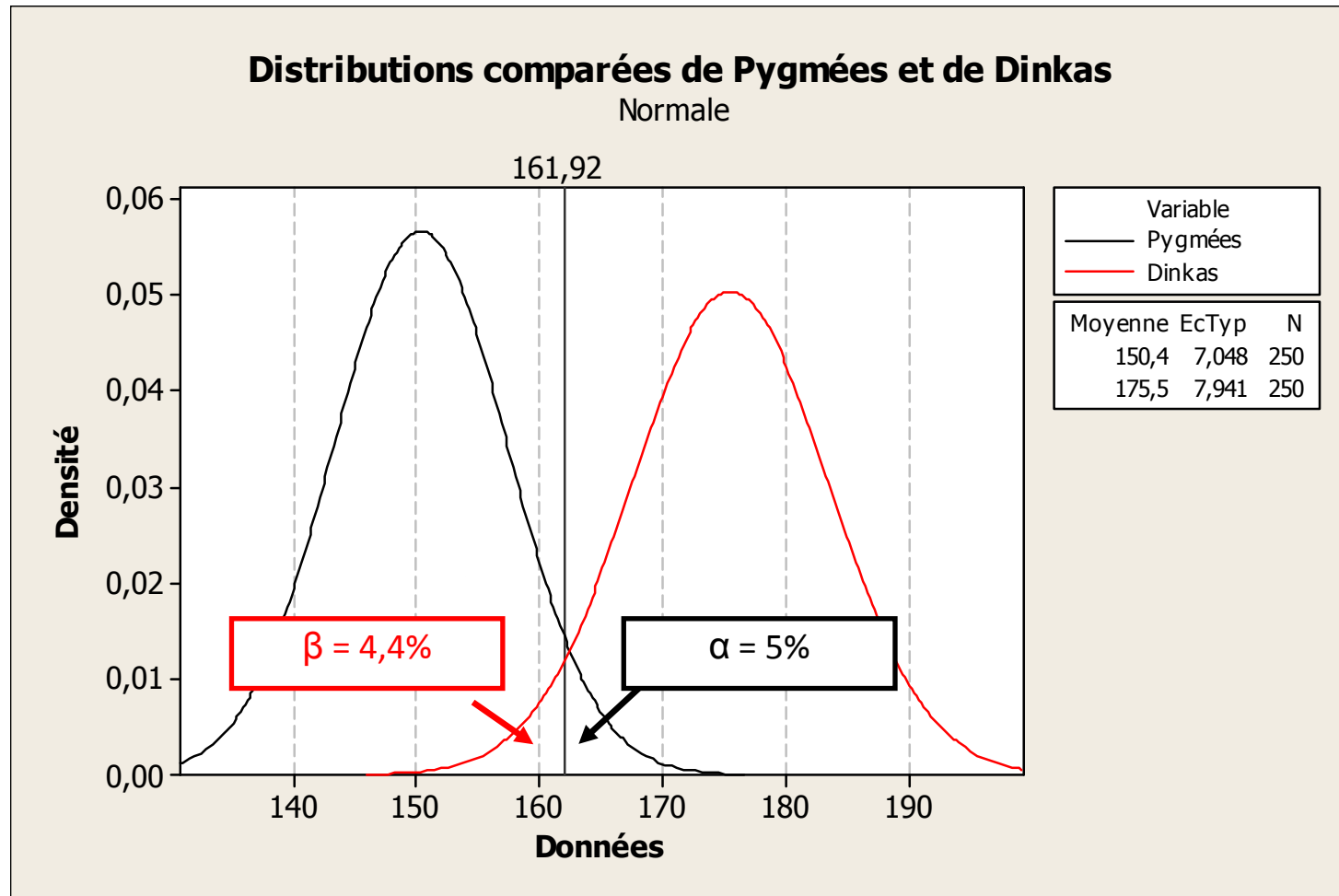
La limite supérieure choisie pour distinguer un Pygmée :  $150,36 + 1,64 \times 7,05 = 161,92$  mètres

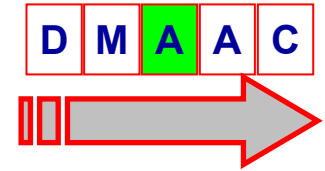
erreur  $\alpha$  choisie = 5%

# Nous aurons le risque d'exclure à tort des Pygmées et d'inclure à tort des Dinkas



A la valeur  $\alpha$  de 5%, la valeur  $\beta$  calculée est de 4,4% pour ces deux échantillons



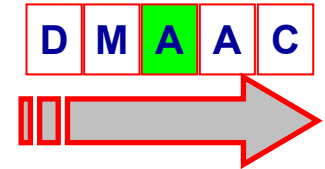


## Quelle est donc la puissance de ce test statistique?

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Une erreur  $\beta$  de 4,4% signifie que nous sommes certains à 95,6% de n'inclure aucun Dinka dans notre population de Pygmées: c'est la Puissance de ce test statistique à la valeur  $\alpha$  choisie de 5%:

$$\text{Puissance} = (1 - \beta) = 95,6\%$$



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