

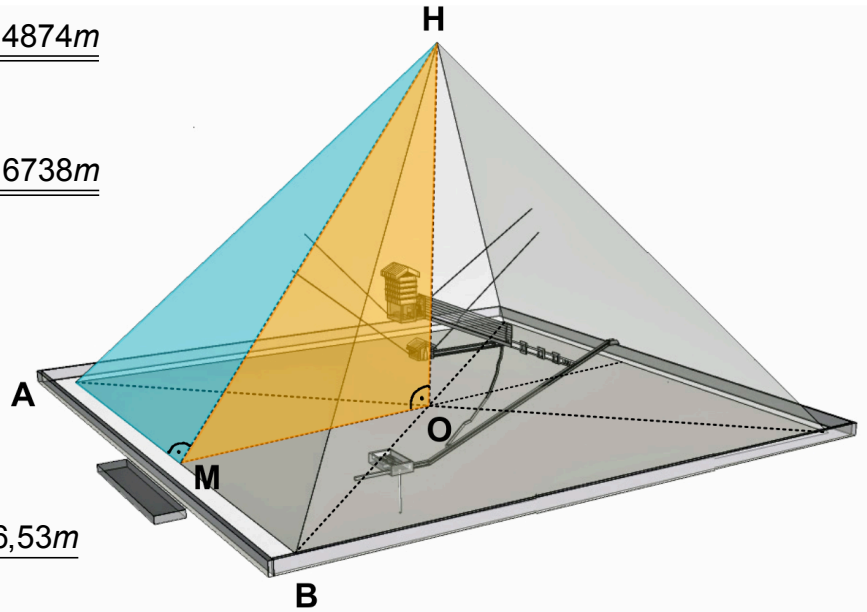
Lösung AB ,Cheops-Pyramide'

1. $\overline{AB} = 440 \cdot 0,523835m = \underline{\underline{230,4874m}}$

2. $\overline{HO} = 280 \cdot 0,523835m = \underline{\underline{146,6738m}}$

3. Pvthagoras 1 :

$$\begin{aligned}\overline{HM} &= \sqrt{\overline{HO}^2 + \overline{OM}^2} \\ &= \sqrt{\overline{HO}^2 + \left(\frac{\overline{AB}}{2}\right)^2} \cong \underline{\underline{186,53m}}\end{aligned}$$



Pvthagoras 2 :

$$\overline{AH} = \sqrt{\overline{HM}^2 + \overline{AM}^2} = \sqrt{\overline{HM}^2 + \left(\frac{\overline{AB}}{2}\right)^2} \cong \underline{\underline{219,26m}}$$

4. $V = \frac{1}{3} \cdot \overline{AB}^2 \cdot \overline{HO} \cong \underline{\underline{2'597'321m^3}}$

5. $A = \frac{1}{2} \cdot \overline{AB} \cdot \overline{HM} \cong \underline{\underline{21'497m^2}}$

6. *Anzahl Blöcke :* $2'597'321m^3 : 1,1m^3 \cong \underline{\underline{2'361'201}}$

7. *Gewicht Pyramide :* $2'597'321 \cdot 2,75t \cong \underline{\underline{7'142'633t}}$

8. *Anzahl Fahrten :* $7'142'633t : 40t \cong \underline{\underline{178'566}}$