

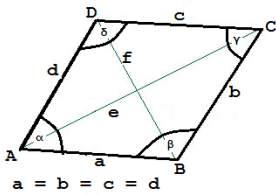
# Klapptest – Prisma 6

Falte das Blatt entlang der Linie und berechne die fehlenden Größen.

$$V = A \cdot h_k \quad A = (e \cdot f) : 2 \quad O = 2 \cdot A + M \quad M = u \cdot h_k$$

Berechne jeweils die fehlenden Größen eines Prismas, bei dem die folgenden Grundflächen dargestellt sind. Die Körperhöhe wird mit  $h_k$  bezeichnet.

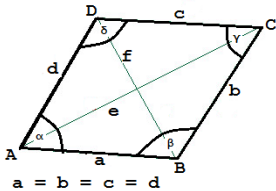
1.  $e = 6 \text{ m}$     $f = 800 \text{ cm}$     $a = 50 \text{ dm}$     $h_k = 20 \text{ m}$



$$\begin{aligned} A &= \underline{\hspace{2cm}} \\ u &= \underline{\hspace{2cm}} \\ M &= \underline{\hspace{2cm}} \\ O &= \underline{\hspace{2cm}} \\ V &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} A &= \underline{\underline{24 \text{ m}^2}} \\ u &= \underline{\underline{20 \text{ m}}} \\ M &= \underline{\underline{400 \text{ m}^2}} \\ O &= \underline{\underline{448 \text{ m}^2}} \\ V &= \underline{\underline{480 \text{ m}^3}} \end{aligned}$$

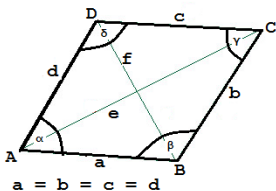
2.  $f = 168 \text{ m}$     $b = 116 \text{ m}$     $A = 13440 \text{ m}^2$     $h_k = 15 \text{ m}$



$$\begin{aligned} e &= \underline{\hspace{2cm}} \\ u &= \underline{\hspace{2cm}} \\ M &= \underline{\hspace{2cm}} \\ O &= \underline{\hspace{2cm}} \\ V &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} e &= \underline{\underline{160 \text{ m}}} \\ u &= \underline{\underline{464 \text{ m}}} \\ M &= \underline{\underline{6960 \text{ m}^2}} \\ O &= \underline{\underline{33840 \text{ m}^2}} \\ V &= \underline{\underline{201600 \text{ m}^3}} \end{aligned}$$

3.  $e = 154 \text{ dm}$     $f = 72 \text{ dm}$     $d = 85 \text{ dm}$     $V = 33264 \text{ dm}^3$



$$\begin{aligned} h_k &= \underline{\hspace{2cm}} \\ A &= \underline{\hspace{2cm}} \\ u &= \underline{\hspace{2cm}} \\ M &= \underline{\hspace{2cm}} \\ O &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} h_k &= \underline{\underline{6 \text{ dm}}} \\ A &= \underline{\underline{5544 \text{ dm}^2}} \\ u &= \underline{\underline{340 \text{ dm}}} \\ M &= \underline{\underline{2040 \text{ m}^2}} \\ O &= \underline{\underline{13128 \text{ m}^2}} \end{aligned}$$

Ergebnis:

           /12 P.