## Herleitung Formel Pyramidenvolumen



Quader grün

Pyramide rot

Pyramide blau
,Keil' weiss
$\mathrm{V}=\frac{\square}{\square} \cdot V_{\text {Pyramide }}$

$$
v=\frac{\square}{\square} \cdot v_{\text {Pryamide ot }}
$$

$V=$
$\mathrm{V}=\frac{\square}{\square} \cdot \mathrm{V}_{\text {Quader }}$

## Pyramide

$V_{\text {Pyramide }}=V_{\text {Quader grün }}+V_{\text {Pyramide rot }}+\square \cdot \frac{1}{4} \cdot V_{\text {Pyramide rot }}+\square \cdot \frac{1}{4} \cdot V_{\text {Quader grün }}$

$$
=V_{\text {Quader grün }}+V_{\text {Pyramide rot }}+V_{\text {Pyramide rot }}+V_{\text {Quader grün }}
$$

$$
=\square \cdot V_{\text {Quader grün }}+\square \cdot V_{\text {Pyramide rot }}
$$

$$
=\square \cdot \frac{\square^{2} \cdot \square}{\square}+\square \cdot \frac{\square}{\square} \cdot V_{\text {Pyramide }}
$$


$4 \cdot V_{\text {Pyramide }}=\square^{2} \cdot \square+V_{\text {Pyramide }} \quad I-V_{\text {Pyramide }}$
$3 \cdot V_{\text {Pyramide }}=\square^{2} \cdot \square$
$1: 3$

$\mathbf{V}_{\mathrm{P}}=$

