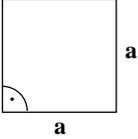
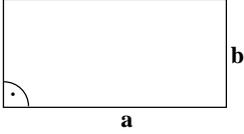
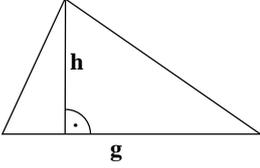
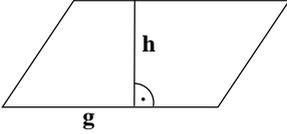
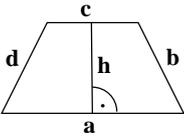
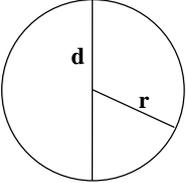
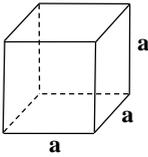
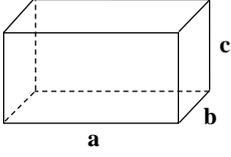
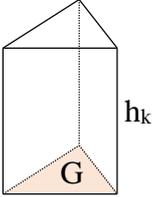
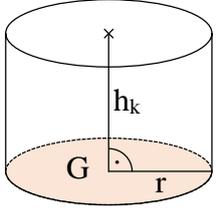


**Mathematische Formeln**

| <b>Ebene Figuren</b> (Fläche A, Umfang u)  |   |
|--|---|
| <p><b>Quadrat</b></p> $A = a^2 = a \cdot a$ $u = 4 \cdot a$                                       | <p><b>Rechteck</b></p> $A = a \cdot b$ $u = 2 \cdot a + 2 \cdot b$   |
| <p><b>Dreieck</b></p> $A = \frac{g \cdot h}{2}$ $u = a + b + c$                                   | <p><b>Parallelogramm</b></p> $A = g \cdot h$ $u = 2 \cdot a + 2 \cdot b$   |
| <p><b>Trapez</b></p> $A = \frac{a+c}{2} \cdot h$ $u = a + b + c + d$                              | <p><b>Kreis</b></p> $d = 2 \cdot r$ $A = \pi \cdot r^2 = \pi \cdot r \cdot r$ $u = 2 \cdot \pi \cdot r \text{ oder } u = d \cdot \pi$  |
| <b>Körper</b> (Volumen V, Oberfläche O, Grundfläche G, Mantelfläche M)   |   |
| <p><b>Würfel</b></p> $V = a^3 = a \cdot a \cdot a$ $O = 6 \cdot a^2 = 6 \cdot a \cdot a$         | <p><b>Quader</b></p> $V = a \cdot b \cdot c$ $O = 2 \cdot a \cdot b + 2 \cdot b \cdot c + 2 \cdot a \cdot c$                          |
| <p><b>Prisma</b></p> $V = G \cdot h_k$ $M = u \cdot h_k$ $O = 2 \cdot G + M$                    | <p><b>Zylinder</b></p> $V = \pi \cdot r^2 \cdot h_k$ $O = 2 \cdot G + M$ $G = \pi \cdot r^2$ $M = 2 \cdot \pi \cdot r \cdot h_k$     |
| <b>Prozent- und Zinsrechnung</b>   |   |
| <p> <math>P_w</math>: Prozentwert<br/> <math>G</math>: Grundwert<br/> <math>p</math>: Prozentsatz / Zinssatz<br/> <math>K</math>: Kapital<br/> <math>Z</math>: Zinsen         </p> | $P_w = \frac{G \cdot p}{100} \quad G = \frac{P_w}{p} \cdot 100 \quad p = \frac{P_w}{G} \cdot 100$ $Z = \frac{K \cdot p}{100}$   |