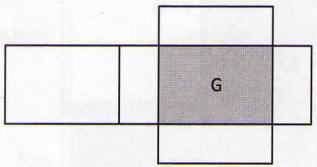
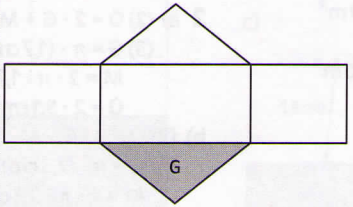
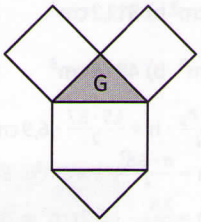
**Kompetenz-Test Körper, Seite 82**

| | | | |
|---|---|---|---|
| **1** |  |  |  |
| **2** | $V = G \cdot h$<br>$V = 36\,cm^2 \cdot 9\,cm = 324\,cm^3$ | $V = G \cdot h$<br>$V = \frac{3{,}5\,cm \cdot 5{,}3\,cm}{2} \cdot 4\,cm \approx 37{,}1\,cm^3$ | $V = G \cdot h$<br>$V = \frac{6\,cm \cdot 7\,cm}{2} \cdot 19{,}3\,cm = 405{,}3\,cm^3$ |
| **3** | $V = G \cdot h$<br>$V = 67\,cm^2 \cdot 4\,cm = 268\,cm^3$ | $V = G \cdot h$<br>$V = \pi \cdot (0{,}85\,cm)^2 \cdot 2{,}5\,cm \approx 5{,}7\,cm^3$ | $V = \pi \cdot r^2 \cdot h$<br>$V = \pi \cdot (3{,}75\,cm)^2 \cdot 10{,}5\,cm \approx 463{,}9\,cm^3$ |
| **4** | $O = 2 \cdot G + M$<br>$O = 2 \cdot 16\,cm^2 + 46\,cm^2 = 78\,cm^2$ | $G = \frac{3{,}5\,cm \cdot 5{,}3\,cm}{2} = 9{,}275\,cm^2$<br>$M = 15{,}2\,cm \cdot 4\,cm = 60{,}8\,cm^2$<br>$O = 79{,}35\,cm^2$ | $G = \frac{6\,cm \cdot 7\,cm}{2} = 21\,cm^2$<br>$M = 21{,}2\,cm \cdot 19{,}3\,cm = 409{,}16\,cm^2$<br>$O = 451{,}16\,cm^2$ |
| **5** | $O = 2 \cdot G + M$<br>$O = 2 \cdot 5{,}3\,cm^2 + 49\,cm^2 = 59{,}6\,cm^2$ | $G = \pi \cdot r^2 = \pi \cdot (0{,}85\,cm)^2 \approx 2{,}3\,cm^2$<br>$M = 2 \cdot \pi \cdot r \cdot h = 2 \cdot \pi \cdot 0{,}85\,cm \cdot 2{,}5\,cm$<br>$\approx 13{,}4\,cm^2$<br>$O \approx 18\,cm^2$ | $G = \pi \cdot r^2 = \pi \cdot (3{,}75\,cm)^2 \approx 44{,}2\,cm^2$<br>$M = 2 \cdot \pi \cdot r \cdot h = 2 \cdot \pi \cdot 3{,}75\,cm \cdot 10{,}5\,cm$<br>$\approx 247{,}4\,cm^2$<br>$O \approx 335{,}8\,cm^2$ |