

9 $\delta = ?$

$180^\circ - 23^\circ = 157^\circ$
 $\downarrow : 2$
 $\beta = 78.5^\circ$

67°

$\delta = \beta - 67^\circ = 11.5^\circ$

\sum Bas

10 Fläche des Quadrates = Q

$D = Q - \frac{5}{8}Q = \frac{3}{8}Q$

$\frac{D}{Q} = \frac{3}{8}$

$D : Q = ? 3 : 8$

11 $\alpha = ?$
 $\beta = ?$
 $\gamma = ?$

$\alpha = 78^\circ$

$\beta = 54^\circ$

$\gamma = 180^\circ - \beta - 24^\circ = 27^\circ$

$180^\circ - 24^\circ = 156^\circ$
 $\downarrow : 2$
 $\alpha = 78^\circ$

$180^\circ - \alpha = 102^\circ$
 $\downarrow : 2$
 $\beta = 51^\circ$

12 $D = \frac{1}{2} \cdot 8 \cdot 30 = 120$

$D = V$
 $x = ?$

$D + V = 2D = 240$

$2D = \frac{1}{2}(x+30) \cdot 10$

$48 = x + 30 \Rightarrow x = 18$

13 $\alpha = ?$

$180^\circ - 92^\circ = 88^\circ$
 $\downarrow : 2$
 $\beta = 44^\circ$

$180^\circ - 36^\circ = 144^\circ$
 $\downarrow : 2$
 $\alpha = 72^\circ$

14 Rahmenfläche = 256 cm^2 $(x-y)^2 = T$

$x^2 - (x-8)^2 = 256$

$16x - 64 = 256$

$16x = 320$
 $x = ? 20$

15

$\alpha = 42^\circ$

$\gamma = \frac{1}{2} \cdot 64^\circ = 32^\circ$

$2\alpha + \beta + 64^\circ = 180^\circ \Rightarrow 2\alpha = 84^\circ$
 $\alpha = 42^\circ$

16 $D = Q = R$
 $x = ?$

$D = Q$
 $y^2 = \frac{1}{2}xy - \frac{1}{2}y^2$
 $\frac{3}{2}y = \frac{1}{2}x$
 $3y = x$

$D = \frac{1}{2}y(x-y)$
 $Q = y^2$
 $R = (20-y) \cdot x$
 $Q = R$
 $y^2 = (20-y) \cdot 3y$
 $y = 15$
 $\Rightarrow x = 45$