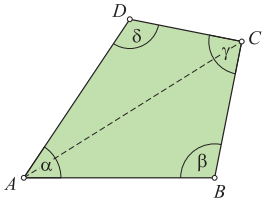
Zadatak 7. Mjere unutarnjih kutova konveksnog četverokuta u omjeru su $5 : 7 : 8 : 12$. Koliki su ti kutovi?

Rješenje.



$$\alpha + \beta + \gamma + \delta = 360^\circ$$
$$\alpha : \beta : \gamma : \delta = 5 : 7 : 8 : 12 \implies \alpha = 5x,\ \beta = 7x,\ \gamma = 8x,\ \delta = 12x$$

$$5x + 7x + 8x + 12x = 360^\circ$$
$$32x = 360^\circ \,/ : 32$$
$$x = 11.25^\circ$$
$$\alpha = 5 \cdot 11,25^\circ = 56.25^\circ = 56^\circ + 0.25 \cdot 60' = 56^\circ 15'$$
$$\beta = 7 \cdot 11,25^\circ = 78.75^\circ = 78^\circ + 0.75 \cdot 60' = 78^\circ 45'$$
$$\gamma = 8 \cdot 11,25^\circ = 90^\circ$$
$$\delta = 12 \cdot 11,25^\circ = 135^\circ$$