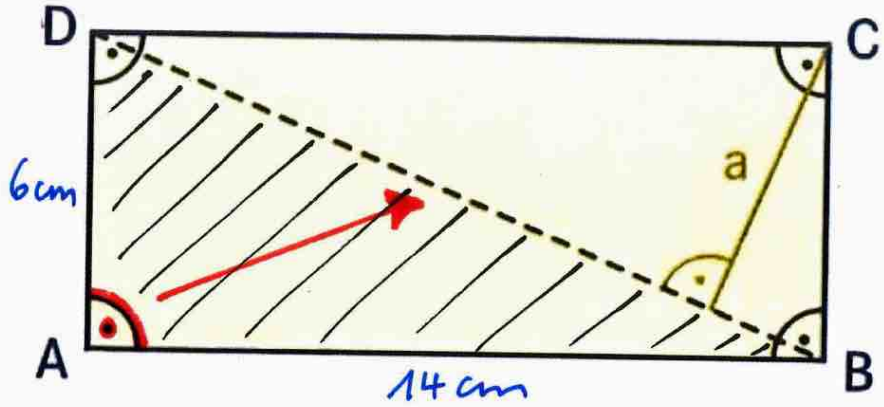
Lösung:

Welchen Abstand a hat die Ecke C
von der Diagonalen BD?

AB = 14 cm, AD = 6 cm



- $\overline{BD}^2 = \overline{AB}^2 + \overline{AD}^2 \quad | \sqrt{}$

$\overline{BD} = \sqrt{\overline{AB}^2 + \overline{AD}^2}$

$= \sqrt{14^2 + 6^2} = \sqrt{196 + 36} = \sqrt{232}\ \text{cm}$

- $A_{\triangle ABD} = \frac{14\text{cm} \cdot 6\text{cm}}{2} = 42\ \text{cm}^2$

$A_{\triangle BCD} = \frac{\overline{BD} \cdot a}{2} = \frac{\sqrt{232}\ \text{cm} \cdot a}{2}$

$\Rightarrow A_{\triangle ABD} = A_{\triangle BCD}$

$42 = \frac{\sqrt{232} \cdot a}{2} \quad | \cdot 2$

$84 = \sqrt{232} \cdot a \quad | : \sqrt{232}$

$\frac{84}{\sqrt{232}} = a$

$a \approx 5{,}5\ \text{cm}$