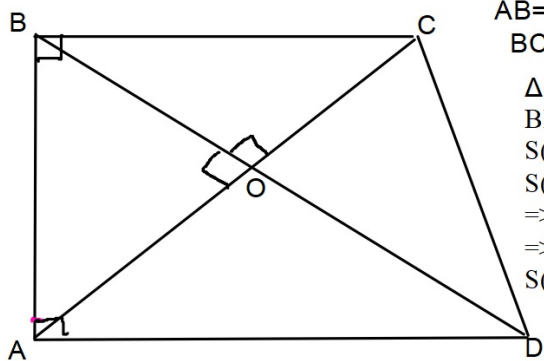




AB=24 cm , AD=32 cm

BC=? CO=? AO=? BO=? DO=?

$\triangle BAD$ - прямоугольный . $\Rightarrow BD^2 = BA^2 + AD^2 = 24^2 + 32^2 = 1600$

$BD = 40 \text{ cm}$

$S(ABD) = BA \cdot AD / 2 = 24 \cdot 32 / 2 = 384$

$S(ABD) = BD \cdot AO / 2 = 40 \cdot AO / 2 = 384 \Rightarrow AO = 19.2 \text{ cm}$

$\Rightarrow BO^2 = BA^2 - AO^2 = 24^2 - 19.2^2 = 207.36 \Rightarrow BO = 14.4 \text{ cm}$

$\Rightarrow DO = BD - BO = 40 - 14.4 \Rightarrow DO = 25.6 \text{ cm}$

$S(ABC) = S(ADC) \Rightarrow S(ABO) = S(DOC) = BO \cdot AO / 2 = DO \cdot CO / 2$

$\Rightarrow BO \cdot AO = DO \cdot CO \Rightarrow 14.4 \cdot 19.2 = 25.6 \cdot CO$

CO=10.8

$BC^2 = BO^2 + CO^2 = 14.4^2 + 10.8^2 = 324$

BC=18 cm