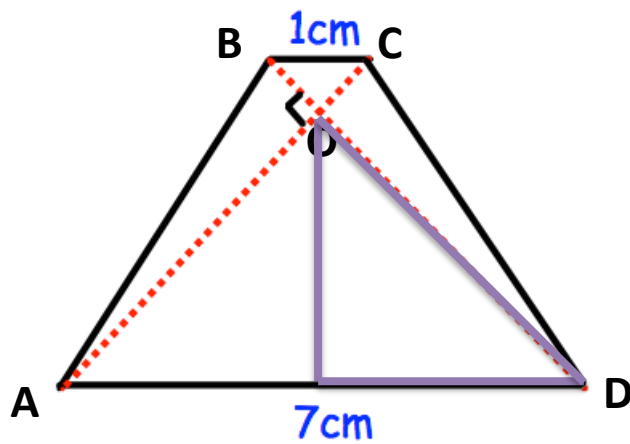


May 2nd



In triangle OBC, the perpendicular from O to BC must be length $\frac{1}{2}$

Similarly, the perpendicular from O to AD must be length $\frac{7}{2}$

(the purple triangle is isosceles and right angled)

Hence the distance between the parallel sides is $\frac{7}{2} + \frac{1}{2} = \mathbf{4cm}$

Dropping a perpendicular from B gives a right angled triangle with

legs 4cm and 3cm

Therefore the length AB = **5cm**