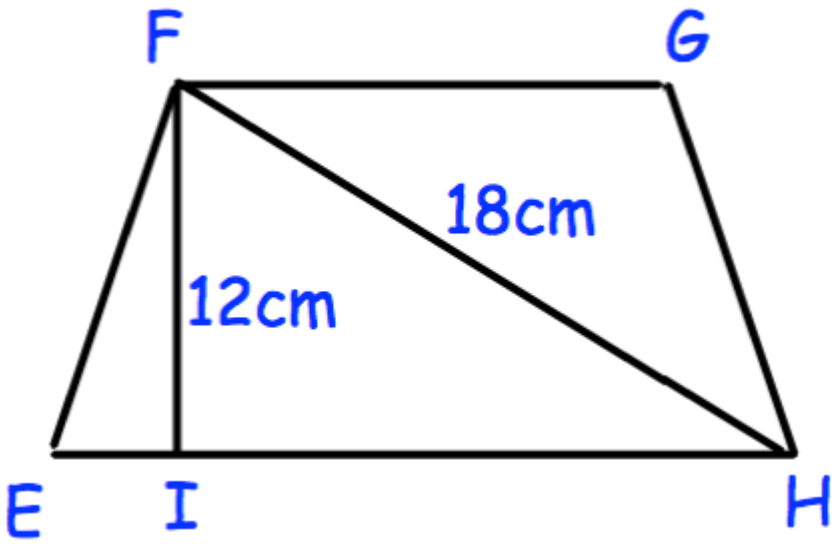
March 29th



Using Pythagoras

$IH^2 = 18^2 - 12^2$

Hence IH = $6\sqrt{5}$ cm

Notice that IH = (FG + EH) ÷ 2 *

Therefore the area =

$6\sqrt{5}$ x 12 = $72\sqrt{5}$ **cm²**

** Another way to think of this is to cut off the triangle FEI, turn it upside down and attach it to the other end of the trapezium, to make a rectangle, with base IH and width 12.*