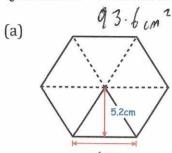


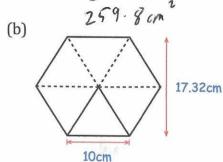
Area: Hexagons

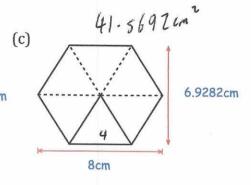
Video 41a on www.corbettmaths.com

Workout

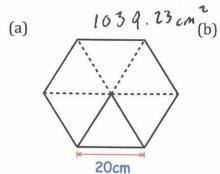
Find the area of each hexagon

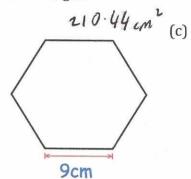


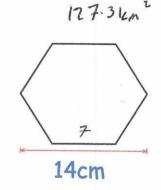




Question 2: Find the area of each hexagon





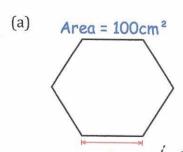


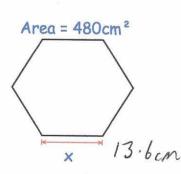
Calculate the area of a regular hexagon with side length 13cm. 439.07cm2

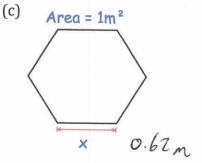
Calculate the area of a regular hexagon with side length 30cm. 2338.27cm

Find the side length of each hexagon below

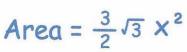
(b)

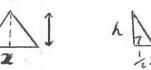






A formula for the area of a regular hexagon with side length x is given below. Extension: Prove this formula.





 $h = \int \frac{\chi^{2} - (\frac{1}{4})^{2}}{h} = \int \frac{3}{4} \chi^{2} = \int \frac{3}{2} \chi$ © CORBETTMATHS 2016 * $6 \times \frac{\sqrt{3}}{4} \chi^2$ = $\frac{3}{4} \sqrt{3} \chi^2$ QEU. Area of triange: $\frac{1}{4} \times \chi \times \frac{\sqrt{3}}{4} \chi = \frac{\sqrt{3}}{4} \chi^2$