

Area: Hexagons

Video 41a on www.corbettmaths.com

Examples



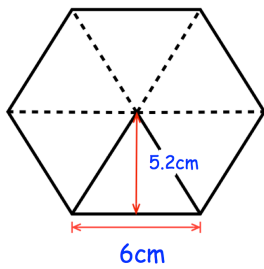
Workout

Click here

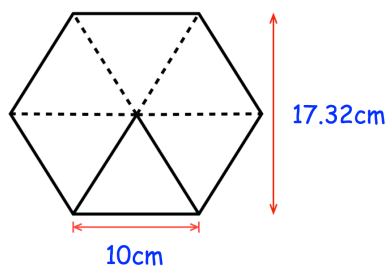
Scan here

Question 1: Find the area of each hexagon

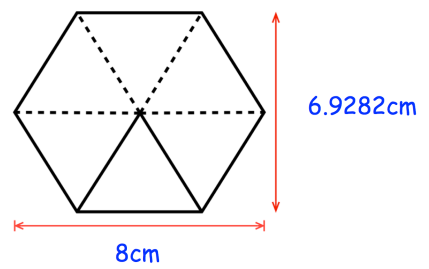
(a)



(b)

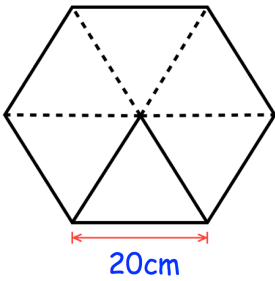


(c)

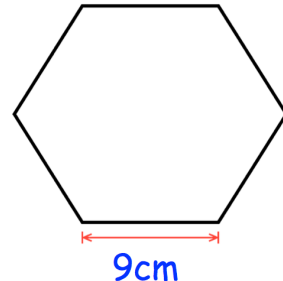


Question 2: Find the area of each hexagon

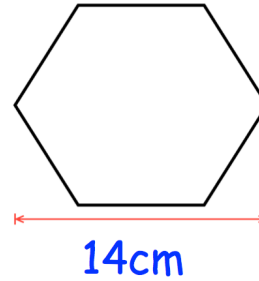
(a)



(b)



(c)



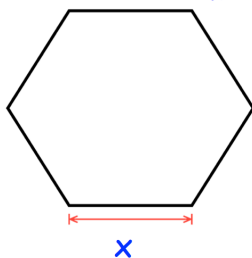
Question 3: Calculate the area of a regular hexagon with side length 13cm.

Question 4: Calculate the area of a regular hexagon with side length 30cm.

Question 5: Find the side length of each hexagon below

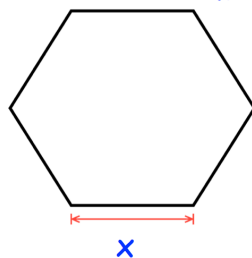
(a)

Area = 100cm^2



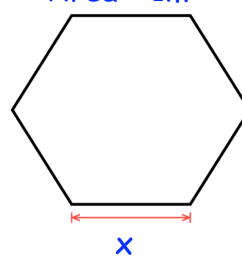
(b)

Area = 480cm^2



(c)

Area = 1m^2



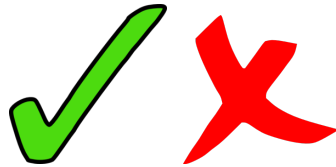
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Extension: A formula for the area of a regular hexagon with side length x is given below.
Prove this formula.

$$\text{Area} = \frac{3}{2} \sqrt{3} x^2$$

Answers



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