

Name \_\_\_\_\_

Date \_\_\_\_\_



## AREA OF A REGULAR POLYGON SHEET 2

Find the area of these regular polygons. Give your answers to 2 decimal places.

POLYGON	WORKING OUT	ANSWER
1) 	$A = \frac{3\sqrt{3}}{2} s^2 = \frac{3\sqrt{3}}{2} \cdot \left(5\frac{1}{2}\right)^2 = \frac{3\sqrt{3}}{2} \cdot \frac{121}{4}$ $= \frac{363}{8} \sqrt{3}$	78.59 in <sup>2</sup> to 2 decimal places
2) 	$A = 2s^2(1 + \sqrt{2}) = 2 \cdot 12^2 \cdot (1 + \sqrt{2})$ $= 288(1 + \sqrt{2})$	695.29 cm <sup>2</sup> to 2 decimal places
3) 	$A = \frac{5}{2} s^2 \sqrt{5 + 2\sqrt{5}} = \frac{5}{2} \cdot 4^2 \cdot \sqrt{5 + 2\sqrt{5}}$ $= 40 \cdot \sqrt{5 + 2\sqrt{5}} = 40 \cdot 3.07768$	123.11 ft <sup>2</sup> to 2 decimal places
4) 	$A = \frac{\sqrt{3}}{4} s^2 = \frac{\sqrt{3}}{4} \cdot (3.2)^2 = \frac{\sqrt{3}}{4} \cdot 10.24$	4.43 m <sup>2</sup> to 2 decimal places
5) 	$A = 3s^2(2 + \sqrt{3}) = 3 \cdot 6^2 \cdot (2 + \sqrt{3})$ $= 108(2 + \sqrt{3})$	403.06 cm <sup>2</sup> to 2 decimal places
6) 	$A = \frac{1}{4} s^2 \sqrt{5(5 + 2\sqrt{5})}$ $= \frac{1}{4} \cdot (15)^2 \cdot \sqrt{5(5 + 2\sqrt{5})}$ $= \frac{225}{4} \cdot 6.8819$	387.11 in <sup>2</sup> to 2 decimal places

# Geometry 3 Areas Of Regular Polygons Answers

**Peipei Pang**



### **Geometry 3 Areas Of Regular Polygons Answers:**

## **Geometry 3 Areas Of Regular Polygons Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Geometry 3 Areas Of Regular Polygons Answers**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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