

## 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)	5 % in	$A = \frac{3\sqrt{3}}{2}s^2 = \frac{3\sqrt{3}}{2} \cdot \left(5\frac{1}{2}\right)^2 = \frac{3\sqrt{3}}{2} \cdot \frac{121}{4}$ $= \frac{363}{8}\sqrt{3}$	78.59 in <sup>2</sup> to 2 decimal places
2)	12 cm	$A = 2s^{2}(1 + \sqrt{2}) = 2 \cdot 12^{2} \cdot (1 + \sqrt{2})$ $= 288(1 + \sqrt{2})$	695.29 cm <sup>2</sup> to 2 decimal places
3)	7, 4 ft	$A = \frac{5}{2}s^2\sqrt{5 + 2\sqrt{5}} = \frac{5}{2} \cdot 4^2 \cdot \sqrt{5 + 2\sqrt{5}}$ $= 40 \cdot \sqrt{5 + 2\sqrt{5}} = 40 \cdot 3.07768$	123.11 ft <sup>2</sup> to 2 decimal places
4)	3.2 m	$A = \frac{\sqrt{3}}{4}s^2 = \frac{\sqrt{3}}{4} \cdot (3.2)^2 = \frac{\sqrt{3}}{4} \cdot 10.24$	4.43 m² to 2 decimal places
5)	‡ 6 cm	$A = 3s^{2}(2 + \sqrt{3}) = 3 \cdot 6^{2} \cdot (2 + \sqrt{3})$ $= 108 (2 + \sqrt{3})$	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 Areas Of A Regular Polygon Key**

**William Frothingham Bradbury** 

## **Geometry Areas Of A Regular Polygon Key:**

Key to Plane Geometry Fletcher Durell, 1916 **Key to Plane and Solid Geometry** Fletcher Durell, Elmer Ellsworth Manual and Key to Plane Geometry William Weller Strader, Lawrence D. Rhodes, 1929 Arnold, 1917 Workbook For Dummies Mark Ryan, 2024-11-13 Don t be a square Strengthen your geometrical skills Lots of students need extra practice to master geometry Thankfully there s Geometry Workbook For Dummies Packed with hundreds of practice problems and easy to understand concept explanations this book takes a hands on approach to showing you the geometric ropes Inside you ll find a helpful review of basic terms and concepts so you can hit the ground running when you get to the more advanced stuff In classic Dummies style this workbook offers easy ways to understand theorems proofs and other geometry fundamentals Figure out congruent triangles wrap your mind around angle arc theorems connect radii and chords and get smart about all the core concepts of geometry Work through hundreds of practice problems to solidify your geometry know how Clear up any confusion with easy to understand explanations of all key concepts Get tips for avoiding common mistakes and improving your test scores For students or parents looking for a hands on approach to learning geometry this is the perfect Dummies guide It's great resource all on its own or pair it with Geometry For Dummies for even more effective **Key to the Exercises in Wells's New Geometry** Webster Wells,1909 book learning Key to Olney's Elements of Geometry and Plane and Spherical Trigonometry, with an Introduction on Method of Teaching Wooster Woodruff **Key to Milne's Plane and Solid Geometry** William James Milne, 1899 Key to the Exercises in Wells' Beman, 1880 Plane and Solid Geometry Webster Wells, 1894 Key to the Exercises in Schultze and Sevenoak's Plane and Solid Geometry Arthur Schultze, 1907 Key to Wells and Hart's Modern Plane and Solid Geometry Webster Wells,1929

Discrete and Computational Geometry Jin Akiyama, Mikio Kano, Masatsugu Urabe, 2004-05-26 This volume consists of those papers presented at the Japan Conference on Discrete and Computational Geometry 98 The conference was held 9 12 cember 1998 at Tokai University in Tokyo Close to a hundred participants from 10 countries participated Interest in Computational Geometry surfaced among engineers in Japan out twenty years ago while interest in Discrete Geometry arose as a natural extension of the research of a group of graph theorists more recently One of the goals of the conference was to bring together these two groups and to put them in contact with experts in these elds from abroad This is the second conference in the series The plan is to hold one every year and to publish the papers of the conferences every two years The organizers thank the sponsors of the conference namely The Institute of Educational Development of Tokai University Grant in Aid of the Ministry of Education of Japan A Saito A 10304008 Mitsubishi Research Institute Sanada Institute of System Development Japan Process and Upward They also thank especially T Asano D Avis V Chv atal H Imai J Pach D R paport M Ruiz J O Rourke K Sugihara T Tokuyama and J Urrutia for their interest and support Key to Bradbury's Elementary Geometry and Trigonometry William Frothingham Bradbury,1872

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