

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 ² 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 ² 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 ² 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 ² 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 ² 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 ² to 2 decimal places

Geometry Areas Of A Regular Polygon Key

William Frothingham Bradbury



Geometry Areas Of A Regular Polygon Key:

Geometry 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 book learning Key to the Exercises in Wells's New Geometry Webster Wells, 1909 **Manual and Key to Plane Geometry** William Weller Strader, Lawrence D. Rhodes, 1929 **Key to Plane Geometry** Fletcher Durell, 1916 **Key to Milne's Plane and Solid Geometry** William James Milne, 1899 **Key to Plane and Solid Geometry** Fletcher Durell, Elmer Ellsworth Arnold, 1917 Key to the Exercises in Schultze and Sevenoak's Plane and Solid Geometry Arthur Schultze, 1907 **Key to Olney's Elements of Geometry and Plane and Spherical Trigonometry, with an Introduction on Method of Teaching** Wooster Woodruff Beman, 1880 **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 Chvatal 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 Wells and Hart's Geometry Webster Wells, 1916 **Key to Wells and Hart's Modern Plane and Solid Geometry** Webster Wells, 1929 Key to the Exercises in Wells' Plane and Solid Geometry Webster Wells, 1894 **Geometry , Grades 7 - 9**, 2014-02-03 The 100 Series Geometry offers in depth practice

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Geometry, Its Elements and Structure Alfred S. Posamentier,Robert L. Bannister,2014-07-16 Co written by a bestselling high school and university textbook author a longtime educational and standards pioneer this up to date text is geared toward high school geometry classes and contains standard material for numerous state competencies Topics include plane solid coordinate vector and non Euclidean geometry Features more than 2 000 illustrations numerous examples with worked out solutions and supplementary reading Electronic solutions manual and annotated teacher s edition are available

A Practice-based Model of STEM Teaching Alpaslan Sahin,2015-07-21 The STEM Students on the Stage SOS TM model was developed by Harmony Public Schools with the goal of teaching rigorous content in an engaging fun and effective way In this book you will learn that the STEM SOS model is not only helping students learn STEM content and develop 21st century skills but also helping teachers improve their classroom climate through increased student teacher communication and a reduction in classroom management issues There are at least two ways in which this book is innovative First you will find student videos and websites associated with QR codes readers can use their QR readers to watch student videos related to the content in the chapter and see student e portfolio samples at their Google sites This provides the opportunity to see that what is discussed in the book actually happened Second the book is not about a theory it is an actual implemented model that has evolved through the years and has been used in more than 25 schools since 2012 Every year the model continues to be improved to increase its rigor and ease of implementation for both teachers and students In addition to using the book as a classroom teacher resource and guide it can also be used as a textbook in advanced graduate level curriculum and instruction educational leadership and STEM education programs Therefore STEM educators leaders pre service and in service teachers and graduate students will all benefit from reading this book Appendices will be one of the favorite aspects of this book for teachers who are constantly looking for ready to use student and teacher handouts and activities Full handouts including formative and summative assessments materials and grading rubrics will provide an opportunity for teachers and curriculum directors to understand the ideas and secrets behind the STEM SOS model Lastly STEM directors will find this to be one of the best STEM teaching model examples on the market because the model has fully accessible

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