







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 Worksheet 16 Area Of Regular Polygons

Answers

Mary Rosenberg



Geometry Worksheet 16 Area Of Regular Polygons Answers:

Geometry: Word Problems Vol. 1 Gr. 3-5 Mary Rosenberg,2013-06-01 This is the chapter slice Word Problems Vol 1 Gr 3 5 from the full lesson plan Geometry For grades 3 5 our resource meets the geometry concepts addressed by the NCTM standards and encourages the students to learn and review the concepts in unique ways Each task sheet is organized around a central problem taken from real life experiences of the students The pages of this resource contain a variety in terms of levels of difficulty and content so as to provide students with a variety of differentiated learning opportunities Included in our resource are activities on two and three dimensional shapes fractions coordinate points and composing and decomposing shapes The task sheets offer space for reflection and opportunity for the appropriate use of technology Also contained are assessment and standards rubrics review sheets color activity posters and bonus worksheets All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy STEM and NCTM standards **Geometry: Word**

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difference between a regular and irregular or simple and complex polygon Explore equilateral isosceles and scalene triangles Label triangles as acute right or obtuse See how many different quadrilaterals there are Extend your knowledge of symmetry by looking at rotational symmetry Find the difference between congruent and similar shapes Get introduced to surface area and volume of 3D shapes The task sheets provide a leveled approach to learning starting with grade 3 and increasing in difficulty to grade 5 Aligned to your State Standards and meeting the concepts addressed by the NCTM standards reproducible task sheets drill sheets review and answer key are included

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