

Chapter 7

Polygons

A **polygon** can be described by two conditions:

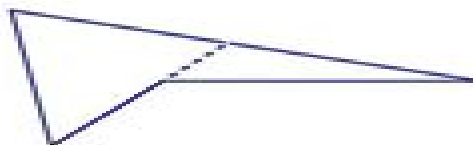
1. No two segments with a common endpoint are collinear.
2. Each segment intersects exactly two other segments, but only on the endpoints.



A **convex polygon** is a polygon such that no line containing a side of the polygon will contain a point in the interior of the polygon.



convex polygon



concave polygon

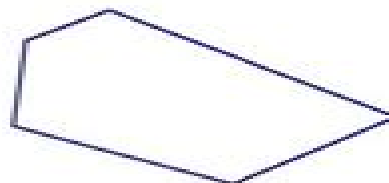
Notice, if I extend a side (dashed line) on the right polygon, the line contains interior points. Therefore it is not a convex polygon, it is called a **concave** polygon.

What's the sum of the interior angles of a quadrilateral? a pentagon? an octagon?

The answer is, I just don't know. But ..., if I draw some pictures, that might help me discover the answer.



quadrilateral



pentagon

Polygons Answer Key

ML Morrison



Polygons Answer Key:

Polygons Galore Dana T. Johnson, Marguerite M. Mason, Jill Adelson, 2021-09-03 Polygons Galore is a mathematics unit for high ability learners in grades 3-5 focusing on 2-D and 3-D components of geometry by exploring polygons and polyhedra and their properties. The van Hiele levels of geometric understanding provide conceptual underpinnings for unit activities. The unit consists of nine lessons that include student discovery of properties of polygons and polyhedra, investigations for finding areas of triangles and quadrilaterals, study of the Platonic solids, and real-world applications of polygons and polyhedra. It also includes activities related to identifying, comparing, and analyzing polygons by using properties of the polygons, constructing meanings for geometric terms, developing strategies to find areas of specific polygons, identifying and building regular and nonregular polyhedra, and recognizing geometric ideas and relationships as applied in daily life and in other disciplines such as art. Grades 3-5

Academic Vocabulary Level 4--Polygons Stephanie Paris, 2014-01-01 This lesson integrates academic vocabulary instruction into content area lessons. Two easy-to-implement strategies for teaching academic vocabulary are integrated within the step-by-step standards-based mathematics lesson. *Math, Grade 6*

Daughtrey, 2015-12-01 Interactive Notebooks Math for grade 6 is a fun way to teach and reinforce effective note-taking for students. Students become a part of the learning process with activities about absolute value, ratios, evaluating expressions, one-variable equations, and inequalities, surface area, and more. This book is an essential resource that will guide you through setting up, creating, and maintaining interactive notebooks for skill retention in the classroom. High interest and hands-on interactive notebooks effectively engage students in learning new concepts. Students are encouraged to personalize interactive notebooks to fit their specific learning needs by creating fun, colorful pages for each topic. With this note-taking process, students will learn organization, color-coding, summarizing, and other important skills while creating personalized portfolios of their individual learning that they can reference throughout the year. Spanning grades kindergarten to grade 8, the Interactive Notebooks series focuses on grade-specific math, language arts, or science skills. Aligned to meet current state standards, every 96-page book in this series offers lesson plans to keep the process focused. Reproducibles are included to create notebook pages on a variety of topics, making this series a fun, one-of-a-kind learning experience. Geometry Levelled Problems: Classifying Figures

Anne M. Collins, Ph.D., 2014-07-01 Differentiate problem solving in your classroom using effective research-based strategies. This lesson focuses on solving problems related to classifying figures. The problem-solving mini-lesson guides teachers in how to teach differentiated lessons. The student activity sheet features a problem tiered at three levels. *GRE Math Workbook* Kaplan Test Prep, 2015-12-01 Kaplan's GRE Math Workbook provides hundreds of realistic practice questions and exercises to help you prepare for the Math portion of the GRE. With expert strategies, content review, and realistic practice sets, GRE Math Workbook will help you face the test with confidence. The Best Review Six full-length Quantitative Reasoning practice sets, Diagnostic tool for even more targeted Quantitative practice, Review of crucial

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Geometry Leveled Problems: Polygons on Coordinate Planes Anne M. Collins, Ph.D., 2014-07-01 Differentiate problem solving in your classroom using effective research based strategies This lesson focuses on solving problems related to polygons on coordinate planes The problem solving mini lesson guides teachers in how to teach differentiated lessons The student activity sheet features a problem tiered at three levels Key Maths David Miller, 2001 This series of resources provides comprehensive support for the Framework for Teaching Mathematics for Year 8 with particular emphasis on a three part mathematics lesson The materials are fully linked to Key Maths and address the beginning and end of the typical lesson structure outlined in the Framework The activities within the packs provide a variety of presentational models including opportunities for interactive oral work direct teaching and paired or group activity work to encourage pupils to engage in mathematical conversation This ICT resource pack provides full details on developing and supporting ICT work in mathematics Full range of additional worksheets that build on the activities in the CD ROM and linked to the National Curriculum The pack makes full reference to DfEE ICT guidelines and other requirements

GRE Math Strategies Manhattan Prep, 2018-09-04 Please note The content in the new Manhattan Prep GRE Math Strategies is an updated version of the math content in the Manhattan Prep GRE Set of 8 Strategy Guides Written and recently updated by our 99th percentile GRE instructors Manhattan Prep's GRE Math Strategies features in depth lessons covering strategies for every math question type on the GRE Designed with students in mind the guide provides a framework for understanding math for the purpose of the GRE and discusses time saving strategies specific to certain question formats including Quantitative Comparison and Data Interpretation questions Each chapter provides comprehensive subject matter coverage with numerous examples to help you build confidence and content mastery Mixed drill sets help you develop accuracy and speed All practice problems include detailed answer explanations written by top scorers

Geometry - Task Sheets Gr. 3-5 Mary Rosenberg, 2009-11-01 Take your knowledge of shapes one step further as you explore polygons and triangles Our resource provides task and word problems surrounding real life scenarios Identify polygons from other shapes Know the 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

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