

10-1

Practice (continued)

Form G

Areas of Parallelograms and Triangles

18. A company wants to paint its logo on the side of a building. The entire area needs to be covered with a primer. The two triangular areas will be painted red, the rectangle containing the company's name will be white, and the rest of the parallelogram will be yellow.

- Find the area for each different color.
- Find the area that must be painted with primer.



Handwritten notes:
 Area of parallelogram = $\frac{1}{2} \times \text{base} \times \text{height}$
 $\frac{1}{2} \times 10 \times 8 = 40$
 Area of rectangle = $\text{length} \times \text{width}$
 $4 \times 4 = 16$
 Area of two triangles = $2 \times \frac{1}{2} \times \text{base} \times \text{height}$
 $2 \times \frac{1}{2} \times 4 \times 4 = 16$
 Area of yellow = $40 - 16 - 16 = 8$

19. A scale drawing of the side view of a house is shown at the right. Find the total area (in square inches) of the side of the house in the drawing.



20. **Open-Ended** Using graph paper, draw a figure with area 42 units² made up of a parallelogram and a triangle.

Coordinate Geometry Find the area of a polygon with the given vertices.

- $A(2, 2), B(5, 2), C(3, -1), D(0, -1)$
- $A(1, 4), B(-2, -2), C(-7, -2), D(-4, 4)$
- $A(5, -3), B(-1, -3), C(-1, 2), D(5, 6)$
- $A(5, 0), B(5, 8), C(-1, 7), D(-1, -6)$

Find the area of each figure.



28. **Reasoning** A parallelogram has a height of 6 units and a corresponding base of 7 units. What is the area of each triangle formed when one diagonal of the parallelogram is drawn? What is the area of each small triangle formed when two diagonals are drawn?
29. A parallelogram has sides 24 m and 5 m. The height corresponding to a 24-m base is 4 m. What is the height corresponding to a 5-m base?

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R Sanford



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Geometry Workbook, Grade 6 Spectrum,2013-12-02 Spectrum R Geometry for grade 6 is designed to completely support and challenge sixth graders to master geometry This 96 page math workbook goes into great depth about geometry and provides a wide range of examples practice problems and assessments to measure progress Builds a foundation in geometric angles figures area volume and graphing Step by step examples introduce new concepts Pretests and Posttests to measure progress Problem solving and critical thinking exercises Correlated to the Common Core Standards Answer key The best selling Spectrum R workbooks provide students with focused practice based on the essential skills they need to master for Common Core success With explicit skill instruction step by step examples ample practice as well as assessment tools for progress monitoring students are provided everything they need to master specific math skills Skill specific Spectrum R workbooks are the perfect supplement for home or school *Oswaal JEE (Main) 22 Yearwise Solved Papers 2022 (All Shifts) Chemistry Book (For 2023 Exam)* Oswaal Editorial Board,2022-12-09 Benefits of the product 100% Updated with 22 Fully Solved 2022 June July Shift Papers Extensive Practice with 650 Questions Cognitive Learning with Smart Mind Maps Mnemonics Valuable Exam Insights with Expert Tips to crack JEE Main in first attempt Concept Clarity with Detailed Explanations 100% Exam Readiness with 5 Years Chapter wise Trend Analysis 2018 2022 *Molecular Theory Of Water And Aqueous Solutions - Part 1: Understanding Water* Arie Ben-naim,2009-07-17 The aim of this book is to explain the unusual properties of both pure liquid water and simple aqueous solutions in terms of the properties of single molecules and interactions among small numbers of water molecules It is mostly the result of the author's own research spanning over 40 years in the field of aqueous solutions An understanding of the properties of liquid water is a prelude to the understanding of the role of water in biological systems and for the evolution of life The book is targeted at anyone who is interested in the outstanding properties of water and its role in biological systems It is addressed to both students and researchers in chemistry physics and biology **Maths for GCSE and IGCSE® Textbook - Higher** CGP Books,2021-12-07 This chunky CGP Textbook contains thousands of practice questions with answers comprehensively covering Higher Level Grade 9 1 GCSE Maths and IGCSE Maths For each topic there are worked examples that show students how to approach problems step by step followed by a huge number of questions that build up in difficulty as they gain confidence **A-Level Maths Textbook: Year 1 & 2** ,2021-08-27 This huge CGP Textbook is packed with thousands of questions for both years of A Level Maths it's suitable for the Edexcel AQA OCR and OCR MEI courses It's perfect for helping students put their knowledge to the test and build their skills The book also contains plenty of worked examples practice exercises on almost every page and review questions at the end of each chapter Better still answers to every question are included at the back **Publishers' Weekly** ,1896 **GCSE Maths Edexcel Student Book - Higher** ,2021-10-08 This superb CGP in depth Student Book covers everything you need to succeed in Edexcel 9 1 GCSE Maths It's packed with detailed accessible notes backed up with

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