

Name: _____

Unit 8: Polygons & Quadrilaterals



Date: _____ Per: _____

Homework 2: Parallelograms

**** This is a 2-page document! ****

Directions: If each quadrilateral below is a parallelogram, find the missing measures.

1.

$KN = \underline{31}$
 $LN = \underline{45}$
 $m\angle K = \underline{61^\circ}$
 $m\angle L = \underline{119^\circ}$
 $m\angle M = \underline{61^\circ}$

2.

$CF = \underline{10}$
 $FE = \underline{15}$
 $CE = \underline{14}$
 $GD = \underline{11}$

*FD = 22

3. Given $PQ = 24$, $PS = 19$, $PR = 42$, $TQ = 10$, $m\angle PQR = 106^\circ$, $m\angle QSR = 49^\circ$, and $m\angle PRS = 35^\circ$.

$QR = \underline{19}$
 $SR = \underline{24}$
 $PT = \underline{21}$
 $SQ = \underline{20}$

$m\angle QRS = \underline{74^\circ}$
 $m\angle PQS = \underline{49^\circ}$
 $m\angle RPS = \underline{39^\circ}$
 $m\angle PSQ = \underline{57^\circ}$

4. Find KL .

$12x - 22 = 7x - 2$
 $5x = 20$
 $x = 4$

$KL = 7(4) - 2$
 $= \underline{26}$

5. If $AC = 8x - 14$ and $BC = 2x + 11$, solve for x .

$2(2x + 11) = 8x - 14$
 $4x + 22 = 8x - 14$
 $36 = 4x$
 $\underline{x = 9}$

6. Solve for x .

$3x + 5 + 9x - 17 = 180$
 $12x - 12 = 180$
 $12x = 192$
 $\underline{x = 16}$

7. Find $m\angle V$.

$10x - 27 = 2x + 29$
 $8x = 56$
 $x = 7$

$m\angle Y = 10(7) - 27 = 43^\circ$
 $\underline{m\angle V = 137^\circ}$

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S Nieto



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Table of Contents Geometry Answer Unit 8 Lesson 1

1. Understanding the eBook Geometry Answer Unit 8 Lesson 1
 - The Rise of Digital Reading Geometry Answer Unit 8 Lesson 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Answer Unit 8 Lesson 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Answer Unit 8 Lesson 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Answer Unit 8 Lesson 1
 - Personalized Recommendations
 - Geometry Answer Unit 8 Lesson 1 User Reviews and Ratings
 - Geometry Answer Unit 8 Lesson 1 and Bestseller Lists

5. Accessing Geometry Answer Unit 8 Lesson 1 Free and Paid eBooks
 - Geometry Answer Unit 8 Lesson 1 Public Domain eBooks
 - Geometry Answer Unit 8 Lesson 1 eBook Subscription Services
 - Geometry Answer Unit 8 Lesson 1 Budget-Friendly Options
6. Navigating Geometry Answer Unit 8 Lesson 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Answer Unit 8 Lesson 1 Compatibility with Devices
 - Geometry Answer Unit 8 Lesson 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Answer Unit 8 Lesson 1
 - Highlighting and Note-Taking Geometry Answer Unit 8 Lesson 1
 - Interactive Elements Geometry Answer Unit 8 Lesson 1
8. Staying Engaged with Geometry Answer Unit 8 Lesson 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Answer Unit 8 Lesson 1
9. Balancing eBooks and Physical Books Geometry Answer Unit 8 Lesson 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Answer Unit 8 Lesson 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometry Answer Unit 8 Lesson 1
 - Setting Reading Goals Geometry Answer Unit 8 Lesson 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Answer Unit 8 Lesson 1
 - Fact-Checking eBook Content of Geometry Answer Unit 8 Lesson 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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