Name

Geometry

Proving that a Quadrilateral is a Parallelogram

Any of the methods may be used to prove that a quadrilateral is a parallelogram.

- 1) If both pairs of opposite sides are parallel, then the quadrilateral is a parallelogram.
- 2) If both pairs of opposite sides of a quadrilateral are congruent, then the quadrilateral is a parallelogram.
- 3) If one pair of opposite sides of a quadrilateral are congruent and parallel, then the quadrilateral is a parallelogram.
- 4) If the diagonals of a quadrilateral bisect each other, then the quadrilateral is a parallelogram.
- 5) If both pairs of opposite angles of a quadrilateral are congruent, then the quadrilateral is a parallelogram.

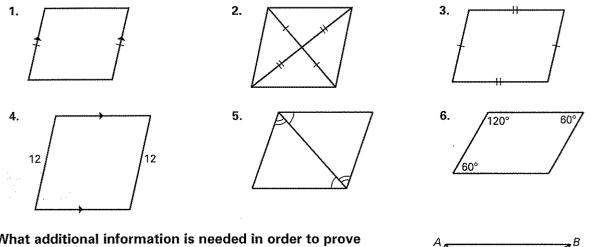


Practice A

NAME

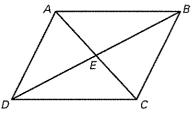
For use with pages 338-346

Are you given enough information to determine whether the quadrilateral is a parallelogram? Explain.



What additional information is needed in order to prove that quadrilateral *ABCD* is a parallelogram?

- 7. $\overline{AB} \parallel \overline{DC}$ 8. $\overline{AB} \cong \overline{DC}$ 9. $\angle DCA \cong \angle BAC$ 10. $\overline{DE} \cong \overline{EB}$
- **11.** $m \angle CDA + m \angle DAB = 180^{\circ}$

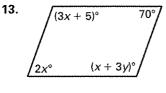


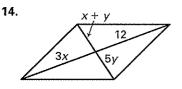
What value of x and y will make the polygon a parallelogram?



12.

3x x+2y-1 6

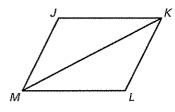




Write a two-column or a paragraph proof using each method.

15. Given: $\triangle MJK \cong \triangle KLM$

Prove: MJKL is a parallelogram.



- **a.** By Theorem 6.6: If both pairs of opposite sides of a quadrilateral are congruent, then the quadrilateral is a parallelogram.
- **b.** By Theorem 6.10: If one pair of opposite sides of a quadrilateral are congruent and parallel, then the quadrilateral is a parallelogram.



Geometry Chapter 6 Resource Book Copyright © McDougal Littell Inc. All rights reserved.



DATE ____



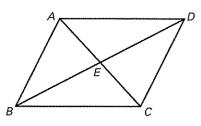
Name _____

Practice B

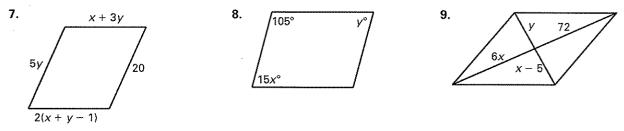
For use with pages 338-346

Decide whether each piece of given information alone is sufficient to prove that quadrilateral *ABCD* is a parallelogram.

- **1.** E is the midpoint of \overline{AC} and \overline{BD} .
- **2.** $m \angle ABC + m \angle BCD = 180^{\circ}$
- **3.** $\overline{AB} \parallel \overline{DC}$ and $\overline{BC} \cong \overline{DA}$
- **4.** $\angle ABC \cong \angle ADC$, and $\angle BAD \cong \angle BCD$
- **5.** $\triangle ABE \cong \triangle DCE$
- **6.** $\triangle ABE \cong \triangle CDE$



What value of x and y will make the polygon a parallelogram?



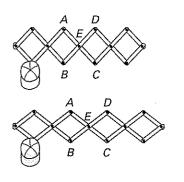
Prove that the points represent the vertices of a parallelogram. Use a different method for each exercise.

10. A(2, -1), B(1, 3), C(6, 5), and D(7, 1)

11. A(-2, -4), B(1, 2), C(2, 10), and D(-1, 4)

Use the diagram of the adjustable hat rack at the right to answer the following.

- 12. Draw the quadrilateral ABCD.
- **13.** If the hat rack were expanded outward, would *ABCD* still be a parallelogram? Explain.

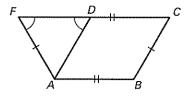


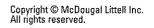
Write a two-column or a paragraph proof.

14. Given: $\overline{AB} \cong \overline{CD}, \overline{BC} \cong \overline{AF}$

$$\angle AFD \cong \angle ADF$$

Prove: ABCD is a parallelogram.

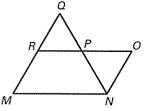




15 Given: $\triangle RQP \cong \triangle ONP$

R is the midpoint of \overline{MQ} .

Prove: MRON is a parallelogram.







Election (0,3

DATE



Practice C For use with pages 338-346

Decide whether you are given enough information to determine that the quadrilateral is a parallelogram.

- 1. Opposite sides are parallel.
- **3.** Two pairs of consecutive sides are congruent.

NAME

- 5. Diagonals are congruent.
- 7. All four sides are congruent.

- 2. Opposite sides are congruent.
- 4. Two pairs of consecutive angles are congruent.
- 6. Diagonals bisect each other.
- 8. Consecutive angles are supplementary.

Prove that the points represent the vertices of a parallelogram. Use a different method for each exercise.

- **9.** A(-4, 7), B(3, 0), C(2, -5), and D(-5, 2)
- **10.** A(-2, 8), B(2, 7), C(5, 1), and D(1, 2)

Find all the possible coordinates for the fourth vertex of a parallelogram with the given vertices.

11. (4, -1), (-4, 1), and (0, 8)

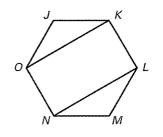
12. (3, -4), (-2, -1), and (1, 2)

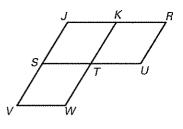
Write a two-column or a paragraph proof.

- **13**. Given: Regular hexagon *JKLMNO*
 - **Prove:** *OKLN* is a parallelogram.

14. Given: *VWKJ* and *SJRU* are parallelograms.

Prove: $\angle W \cong \angle U$





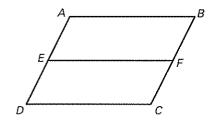
15. Given: □ABCD

Lesson 6.3

E is the midpoint of AD.

F is the midpoint of BC.

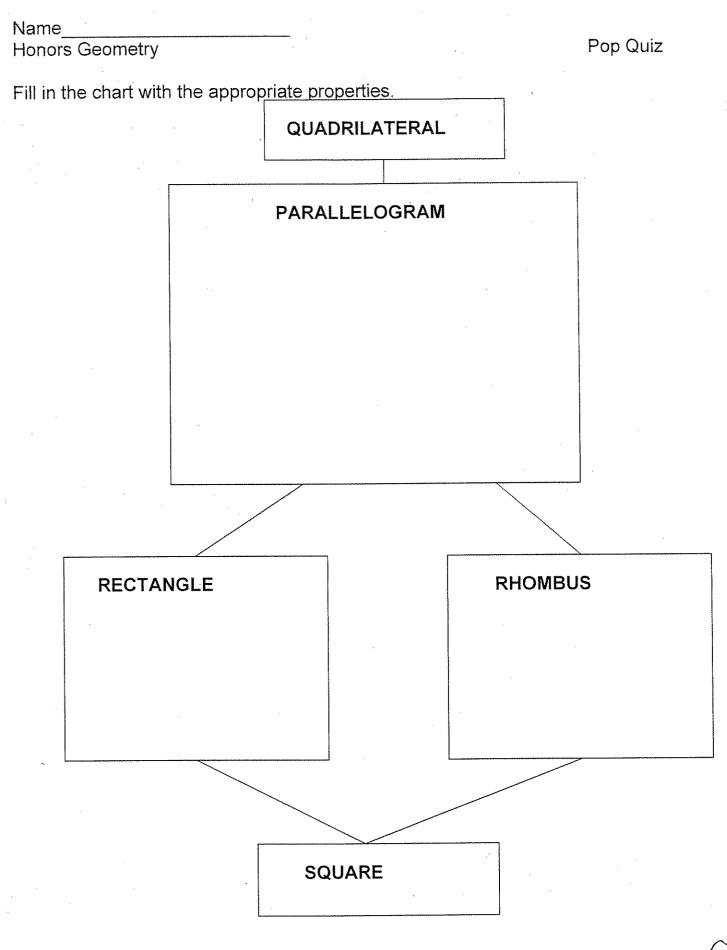
Prove: Quadrilateral *ABFE* is a parallelogram.





Copyright © McDougal Littell Inc. All rights reserved.

Date



.

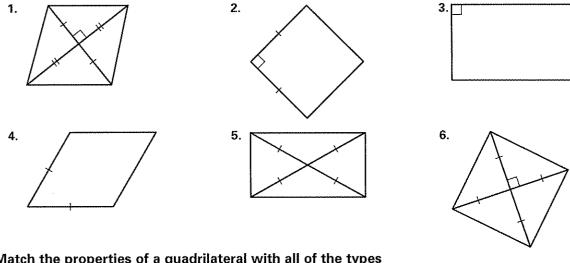




NAME_____

For use with pages 347-355

Each figure is a parallelogram. Identify the special type and explain your reasoning.



Match the properties of a quadrilateral with all of the types of quadrilateral which have that property.

- 7. The diagonals are congruent.
- 8. Both pairs of opposite sides are congruent.
- **9.** Both pairs of opposite sides are parallel.
- **10.** All angles are congruent.
- **11.** All sides are congruent.
- **12.** Diagonals bisect the angles.

MATH is a parallelogram with diagonals intersecting at O. Identify the type depending upon the given conditions.

13. $\overline{MT} \perp \overline{AH}$

M

15. $\overline{MA} \perp \overline{AT}, \overline{AM} \cong \overline{MH}$

Find the value of *x*.17. *MNOP* is a square.

14. $\overline{MT} \cong \overline{AH}$ 16. $\overline{MO} \cong \overline{OT}, \overline{AO} \cong \overline{OH}$

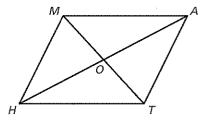
18. *DEFG* is a rhombus.

D

 $(7x - 28)^{\circ}$

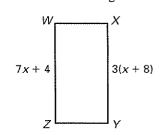
(10x)

G



19. WXYZ is a rectangle.

Ε





Lesson 6.4

Geometry Chapter 6 Resource Book

5x - 8

N

0

3x + 14

Copyright © McDougal Littell Inc. All rights reserved.

B. RectangleC. Rhombus

A. Parallelogram

D. Square



Practice B

For use with pages 347-355

Decide whether the statement is *sometimes, always,* or *never* true.

1. A rhombus is equilateral.

NAME

- 2. The diagonals of a rectangle are perpendicular.
- 3. The opposite angles of a rhombus are supplementary.
- 4. A square is a rectangle.
- 5. The diagonals of a rectangle bisect each other.
- 6. The consecutive angles of a square are supplementary.

Quadrilateral ABCD is a rhombus.

- 7. If $m \angle BAE = 32^\circ$, find $m \angle ECD$.
- 8. If $m \angle EDC = 43^\circ$, find $m \angle CBA$.
- **9.** If $m \angle EAB = 57^\circ$, find $m \angle ADC$.
- **10.** If $m \angle BEC = 3x 15^\circ$, solve for x.
- **11.** If $m \angle ADE = 5x 8^{\circ}$ and $m \angle CBE = 3x + 24$, solve for x.
- **12.** If $m \angle BAD = 4x + 14^{\circ}$ and $m \angle ABC = 2x + 10^{\circ}$, solve for x.

It is given that *PQRS* is a parallelogram. Decide whether it is a rectangle, a rhombus, a square, or none of the above. Justify your answer using theorems about quadrilaterals.

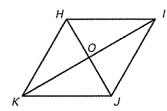
your answer using th	our answer using theorems about quadrilaterals.				
13. $P(-2, 3)$	14. $P(7, -1)$	15. $P(-4, 0)$	16. <i>P</i> (1, 1)		
Q(-2, -4)	Q(3, 6)	Q(3, 7)	Q(-2, 4)		
R(2, -4)	R(-1, -1)	R(6, 4)	R(-5, 1)		
<i>S</i> (2, 3)	S(3, -8)	S(-1, -3)	S(-2, -2)		

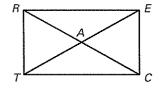
Write a two-column or a paragraph proof.

17. Given: Parallelogram *HIJK*

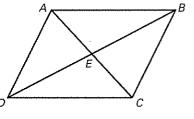
$$\triangle HOI \cong \triangle JOI$$

Prove: *HIJK* is a rhombus.





18. Given: Rectangle *RECT* **Prove:** $\triangle ART \cong \triangle ACE$









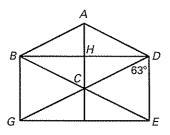
NAME

DATE

In the diagram shown, BDEG is a rectangle and ABCD is a rhombus. Find the measure of the indicated angle.

Practice C For use with pages 347--355

1. ∠ <i>GDB</i>	2. ∠ <i>ABC</i>
3 . ∠ <i>DAB</i>	4. ∠ <i>BCG</i>
5. ∠ <i>GCE</i>	6. ∠ <i>DEG</i>
7 . ∠AHB [,]	8. ∠DGB



Decide whether the statement is true or false. Decide whether the converse is true or false. If both statements are true, write a biconditional statement.

- 9. If a quadrilateral is a rectangle, then it is a parallelogram.
- **10.** If a quadrilateral is a parallelogram, then it is a rhombus.
- **11.** If a quadrilateral is a square, then it is a rhombus.
- **12.** If a quadrilateral is a rectangle, then it is a rhombus.
- **13.** If a rhombus is a square, then it is a rectangle.

Find the length or angle measure.

14. WXYZ is a square.	15. <i>WXYZ</i> is a rhombus.	16. WXYZ is a rectangle.
WX = 1 - 10x	$m \angle X = 24(10 - x)^{\circ}$	Perimeter of $\triangle XYZ = 24$
YZ = 14 + 3x	$m \angle Z = 6(x + 15)^{\circ}$	XY + YZ = 5x - 1
<i>XY</i> = _?	$m \angle Y = ?^{\circ}$	XZ = 13 - x
		$WY = \underline{?}$

Write a two-column or a paragraph proof.

- **17.** Given: WHAT is a parallelogram. DART is a rhombus.
- **18.** Given: $\triangle GEC \cong \triangle GHX$

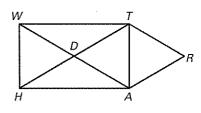
c

G

Ε

Prove: *GEBH* is a rhombus.

Prove: WHAT is a rectangle.



19. Given: JANE is a parallelogram. JXPE is a parallelogram. $XP \perp EN$

Prove: JANE is a rectangle.



lasson (5.2

Geometry Chapter 6 Resource Book Copyright © McDougal Littell Inc. All rights reserved.



GEBH is a parallelogram.

Ε

В

X

N

A

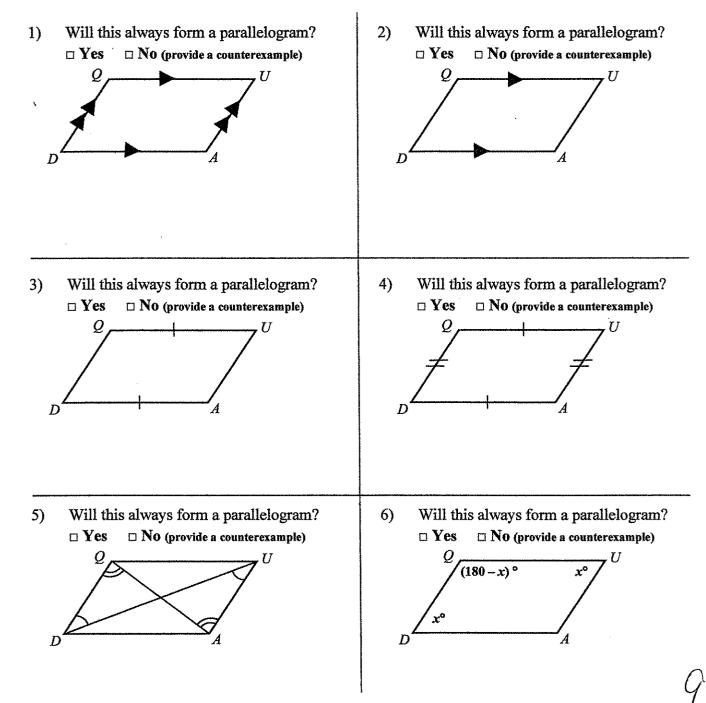
Geometry	NAME:	
WORKSHEET: Tests for Parallelograms	PERIOD:	DATE:
WORKSHEET: Tests for Parauetograms	PERIOD:	DATE:

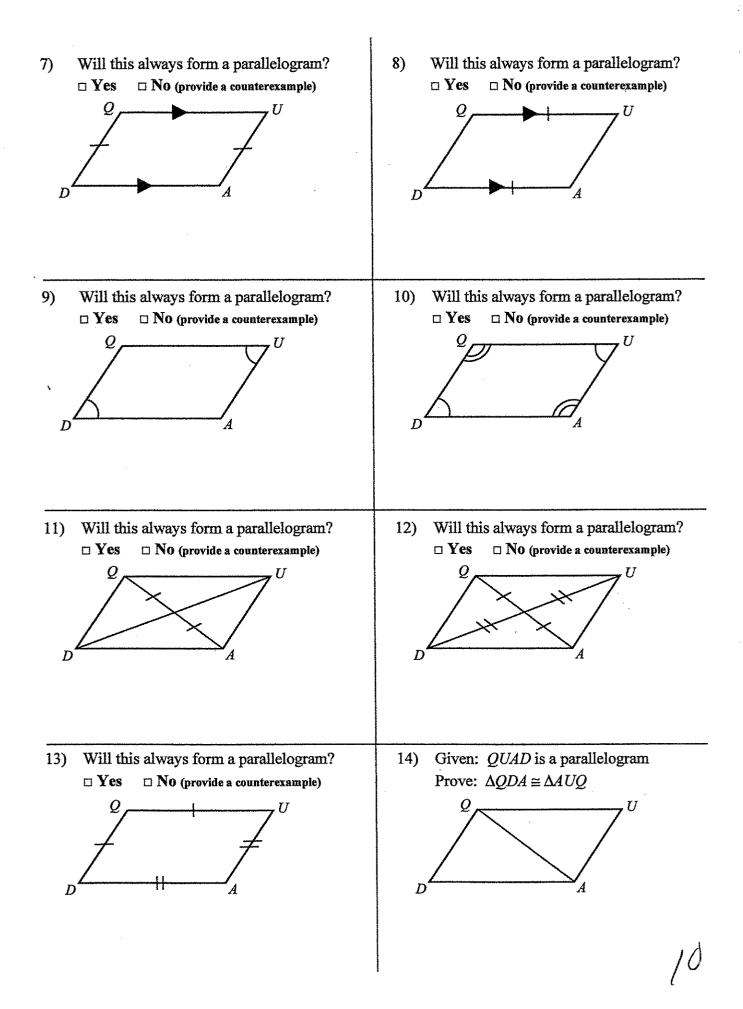
٦,

Tests for Parallelograms

A Parallelogram is defined as a quadrilateral with both pairs of opposite sides parallel.

Does the given information make the *QUADRILATERAL* a *PARALLELOGRAM*? If the information does not *guarantee* a parallelogram, sketch a counterexample that demonstrates another possible shape having the same characteristics.





<u>Tests for Parallelograms</u>

We can test if a quadrilateral is a parallelogram if it possesses certain properties.

Complete the following:

A quadrilateral is a parallelogram if...

1) Both pairs of opposite sides are ______.

2) Both pairs of opposite sides are _____.

3) Both pairs of opposite angles are ______.

4) One pair of opposite sides is *both* ______ and _____.

5) Consecutive angles are _____.

6) The diagonals ______ each other.

7) A diagonal of a parallelogram will always divide the parallelogram into

two _____.

These tests describe properties of *ALL* parallelograms. In certain parallelograms, we find even more specific properties... these parallelograms are called *Special Parallelograms*.

SPECIAL PARALLELOGRAMS... A Rectangle, Rhombus, and Square have all the properties described above, but other properties make them special.

What is the name of the parallelogram where...

1)	All angles are right angles:	
2)	All sides are congruent:	
3)	Diagonals are congruent:	
4)	Diagonals are perpendicular:	
5)	Diagonals bisect both pairs of op	posite angles:

Geometry	NAME:		
WORKSHEET: Special Parallelograms	PERIOD:	DATE:	

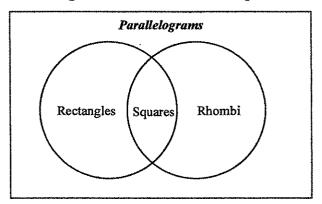
Special Parallelograms

A Rhombus is a parallelogram with...

A Rectangle is a parallelogram with...

A Square is a parallelogram with...

Use the Venn Diagram below to answer the questions that follow.



TRUE or FALSE.

1) _____ All rectangles are squares. 2) _____ A rectangle can be a square.

4) _____ A rhombus can be a square.

- 3) _____ All squares are rectangles.
- 5) _____ All rhombi are squares. 6) _____ Every square is also a rhombus.
- 7) _____ Some rectangles are rhombi. 8) _____ All rectangles are rhombi.

Complete the following.

9) A rhombus can be a rectangle if it is _____.

10) A rectangle can be a rhombus if it is _____.

PRACTICE

Properties of Rectangles and Squares

Complete the table. Place a check mark under the name of each figure for which the property is always true.

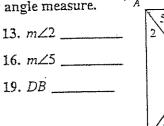
	Parallelogram	Rhombus	Rectangle	Square
1. The diagonals are perpendicular.		-		
2. The figure has four right angles.	,			
3. The opposite sides are congruent.				
4. The diagonals are congruent.		•		
5. The figure has four congruent sides.				
6. The diagonals bisect each other.				<u> </u>
7. The consecutive angles are supplementary.			, <u>, , , , , , , , , , , , , , , , , , </u>	···
8. Each diagonal bisects a pair of opposite angles.				
9. The figure has exactly four lines of symmetry.		<u> </u>	<u>.</u>	
10. The figure is a rectangle.				<u> </u>

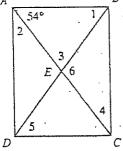
ABCD is a rectangle, with AC = 18. Find each length or angle measure.11. $m \angle BCD$ _____12. $m \angle 1$ _____13. $m \angle 2$ _____

11. *m∠BCD* _____ 14. *m*∠3 _____

17. *m*∠6 _____

15. *m*∠4 _____ 18. *AE* _____





Date

÷.

G2MK

© Prentice Hall

 GHKL is a rectangle that is not a square. Answer true or false.

 20. GHKL and its diagonals form four congruent triangles.

 21. GHKL and its diagonals form four isosceles triangles.

 22. $\angle 1 \equiv \angle 2$

 23. $\triangle GHL \equiv \triangle KLH$

 24. \overline{GK} is a line of symmetry.

25. $\triangle GML \equiv \triangle HMK$ ______ 26. $\overline{GK} \equiv \overline{HL}$ _____

	• •
Properties of Rhombuses	(:
True or faise?	
1. Every rhombus is a parallelogram.	
2. The diagonals of a rhombus bisect each other.	
3. The diagonals of a rhombus are congruent.	-
4. The diagonals of a rhombus are perpendicular to each other.	
5. The consecutive angles of a rhombus are congruent.	
6. The consecutive sides of a rhombus are congruent.	•
7 A rhombus and one of its diagonals form two isosceles triangles.	
 8. MNPQ is a rhombus. Find the measure of each angle. 9. GHJK is a rhombus, with GJ = 42. Find the length of each segment. 	1
$M = \frac{N}{2}$ $\frac{4}{3}$ $\frac{1}{2}$ $\frac{40}{L}$ $K = \frac{1}{35^{\circ}}$	63
m∠1 m∠NMQ GH HJ	
$m \angle MNP _ m \angle 2 _ LI _ LH _$	
m∠3 m∠4 KH	
10. ABCD is a rhombus. Find each angle measure or segment length.	
$m \neq DAB$ C	
$m \angle 2 _ m \angle 3 _ 26 \xrightarrow{60^{\circ}} E$	
AD 4	
BD ED D	
11. EFGH is a rhombus, with $m \angle EFG = (3x - 15)^\circ$ and	
$m \angle EHF = (2x - 30)^\circ$. Find x and $m \angle EFG$.	(
)
·	L.
	1 [

.

Name_____ Systems Practice

Using Rectangle ABCD whose diagonals intersect at E, answer the following. Each question is independent (i.e. the information does not carry through)

1. $m \angle BCD = 18x - 3y$ AB = x - 2 CD = 2y + 14

Find x & y

2. $m \angle ABD = 3x - 1$ $m \angle EDC = 2y + 6$ $m \angle ADB = 4x + y$ $m \angle DBC = x + 8$

Find x & y

Find x & y

3. AC = 18 BE = x + y BD = 3x - 2y

4. $m \angle BCE = 23^{\circ}$ $m \angle ADE =$ $m \angle DEC =$ $m \angle CBE =$

Rhombus & Factoring Practice

- 1) Given Rhombus ABCD whose diagonals intersect at E.
- AB = $7x^2 + 28$ BC = $x^2 + 31x$ m∠BCA = $2w^2 - 18w$ m∠DBA = 3w + 63BE = $y^2 - 9y$ DB = 17y - 15

Find w, x, & y

2) Solve the following systems:

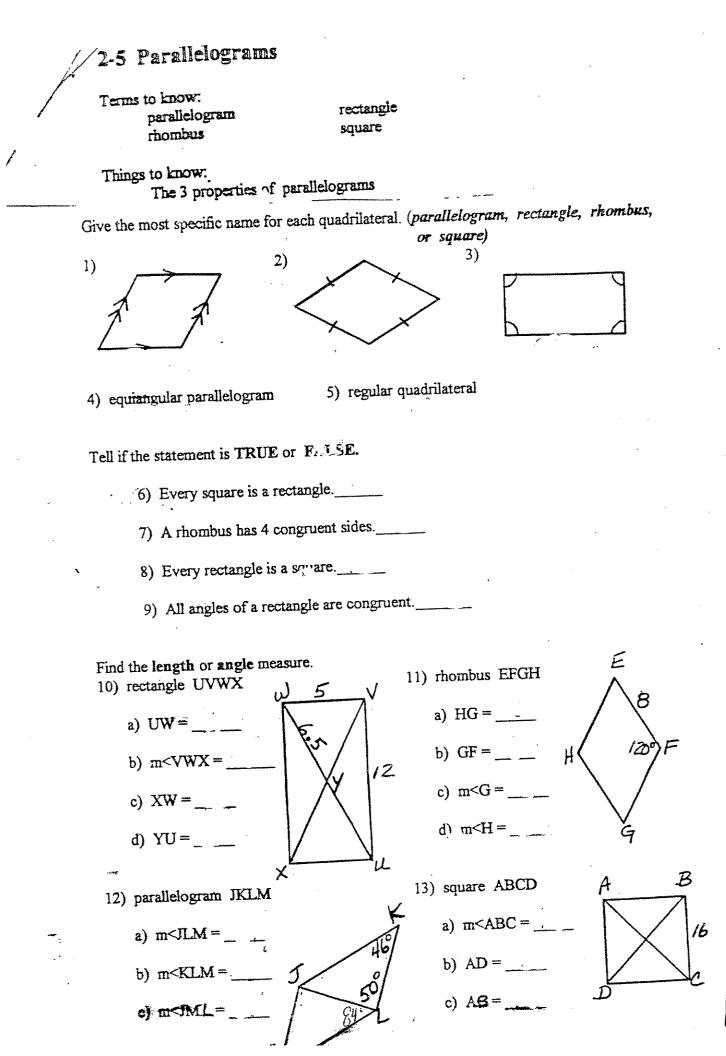
 $3x^2 - 4x - 20$ $6x^2 - 11x - 12$

 $8x^2 - 26x + 15$

$$2x^2 + x - 36$$

3) Solve the following questions given Rhombus USCG whose diagonals intersect at A.

- a. If $m \angle USA = 44^{\circ}$ find $m \angle CGA$
- b. If $m \angle GUS = 102^{\circ}$ find $m \angle ACG$
- c. If UC = 18 find SG
- d. If UC = 10 find AC
- e. If $m \angle SGU = 12^{\circ}$ find $m \angle SCG$
- f. If $m \angle USC = 81^{\circ}$ find $m \angle UAS$



Properties of Rectangles, Rhombuses, and Squares

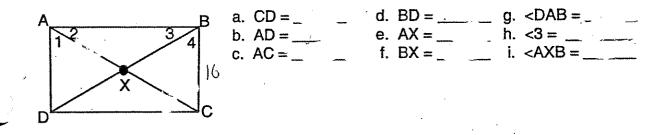
Rectangles all properties of parallelograms plus -diagonals are congruent -all angles measure 90 Rhombuses all properties of parallelograms plus —all sides are congruent

- -diagonals are perpendicular
- -diagonals bisect opposite angles

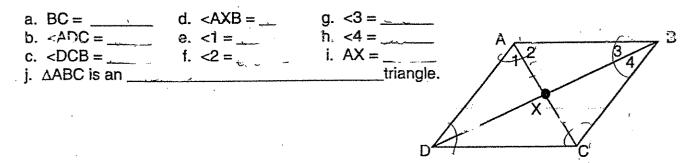
Squares —all properties of parallelograms —all properties of rectangles —all properties of rhombuses

Use the properties to find measures of segments and angles in the diagrams.

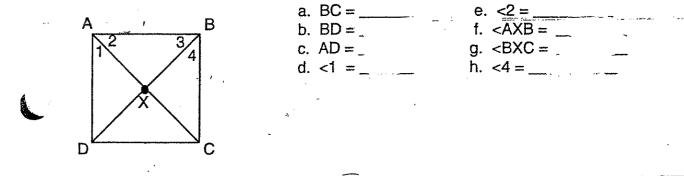
1. ABCD is a rectangle. If AB = 24, BC = 10, and $<1 = 50^{\circ}$, find the following:

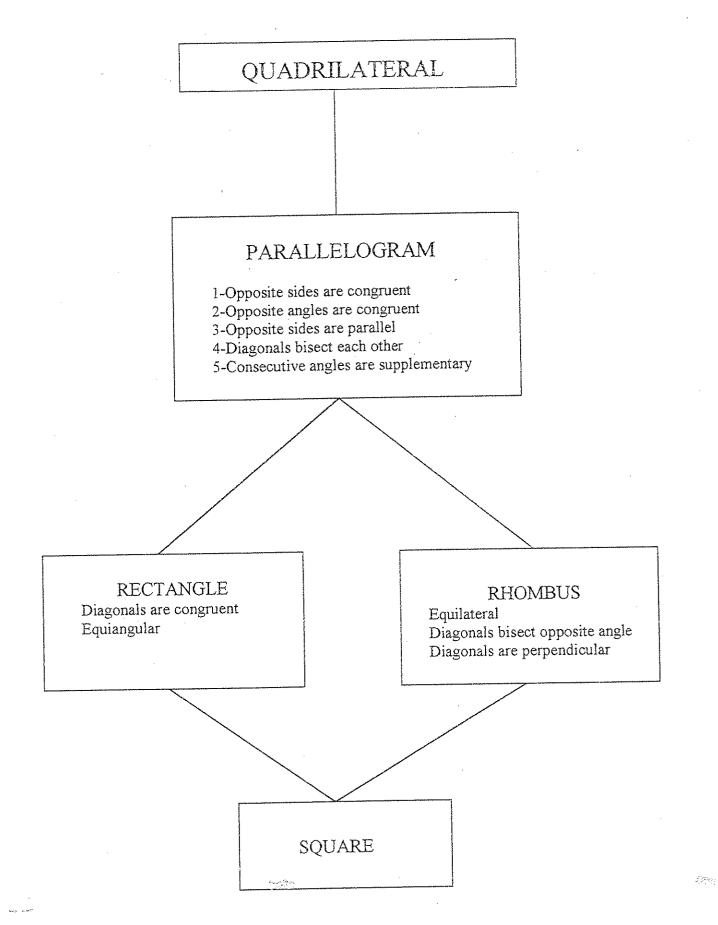


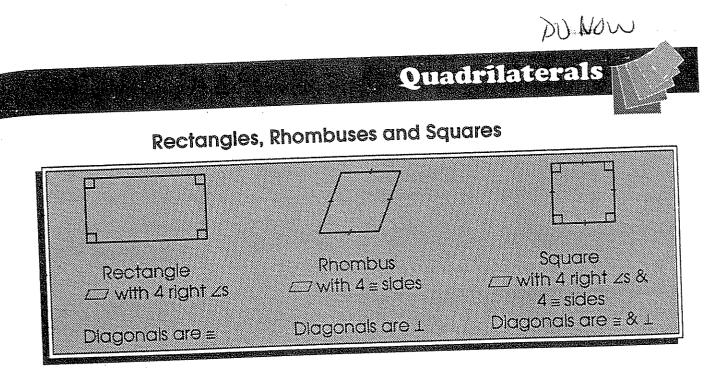
2. ABCD is a rhombus. If AB = 6, XC = 3, and $\langle DAB = 120^\circ$, find the following:



3. ABCD is a square. If AB = 16 and AC = $16\sqrt{2}$, find the following:







True or False.

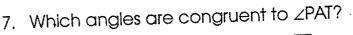
 $\left\{ \cdot \right\}$

 \sim^{4}

.

- 1. A rhombus is a parallelogram with four congruent sides.
- 2. A rectangle is a parallelogram with four right angles.
- 3. A square is a rectangle and a rhombus.
- 4. A rhombus is always a square.
- 5. Every parallelogram is a regular quadrilateral.
- 6. In a rectangle, the diagonals are perpendicular.

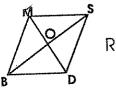




8. Which segment is congruent to $\overline{\mathrm{YT}}$?

9. Which segment is congruent to \overline{PT} ?

- 10. Which segments are congruent to \overline{SD} ?
- 11. Which segment is congruent to \overline{MO} ?
- 12. What is the measure of $\angle BOD$?



Rhombus

V T Square

Geometry IF8763

- 13. Which segments are congruent to $\overline{\text{TV}}$?
- 14. Which angles are congruent to $\angle TIM?$
- 15. Which segment is congruent to \overline{IM} ?



PERIOD .

NAME_____Study Guide

Rectangles, Rhombi, and Squares

A **rectangle** is a quadrilateral with four right angles. A **rhombus** is a quadrilateral with four congruent sides. A **square** is a quadrilateral with four right angles and four congruent sides. A square is both a rectangle and a rhombus. Rectangles, rhombi, and squares are all examples of parallelograms.

Rectangles	Rhombi
 Opposite sides are congruent. Opposite angles are congruent. Consecutive angles are supplementary. Diagonals bisect each other. 	 Diagonals are perpendicular. Each diagonal bisects a pair of opposite angles.
 All four angles are right angles. Diagonals are congruent. 	

Determine whether each statement is always, sometimes, or never true.

1. The diagonals of a rectangle are perpendicular.

2. Consecutive sides of a rhombus are congruent.

3. A rectangle has at least one right angle.

4. The diagonals of a parallelogram are congruent.

5. A diagonal of a square bisects opposite angles.

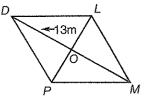
Use rhombus DLMP to determine whether each statement is true or false.

6. OM = 13 **7.** PL = 26

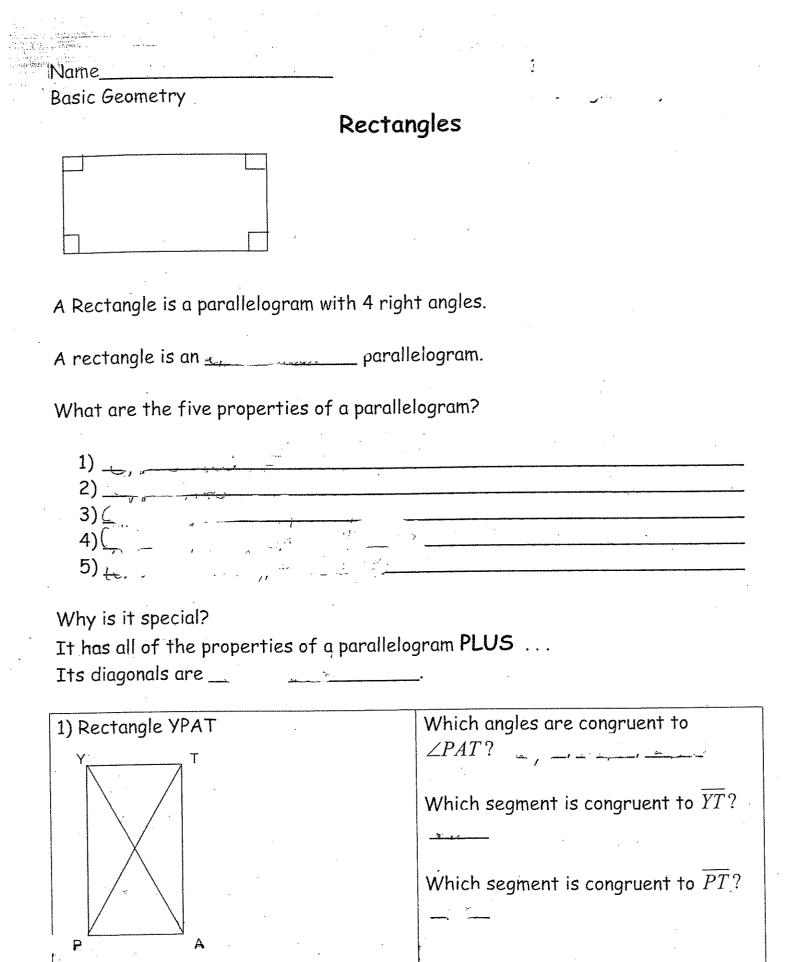
8.
$$\widehat{MD} \cong \overline{PL}$$
 9. $m \angle DLO = m \angle LDO$

10. $\angle LDP \cong \angle LMP$ **11.** $m \angle DPM = m \angle PML$

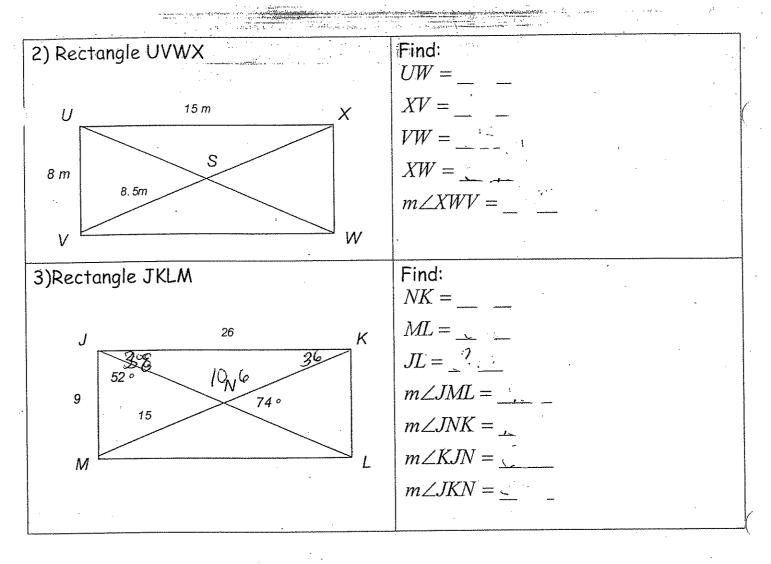








Ś



True or False

A rectangle is a parallelogram that always has four right angles._____ A rectangle is always a parallelogram._____ A rectangle is a parallelogram that always has four congruent sides._____ Every parallelogram is a rectangle. ______ In a rectangle the diagonals are congruent.______ In a rectangle the diagonals bisect each other.______ In a rectangle opposite sides are not congruent.______

Basic Geometry	Rhombuses
	KIIOIIIDUSCO
A rhombus is a parallelogra	m with 4 congruent sides.
A rhombus is an	parallelogram.
What are the five propert	ies of a parallelogram?
1)	
3)	· · ·
4)	
5)	
-	
Why is it special?	
Why is it special? Tt has all of the propertie	s of a parallelogram PLUS
It has all of the propertie	s of a parallelogram PLUS
It has all of the propertie	•
It has all of the propertie • Its diagonals are <u>.</u> • Each diagonal <u>.</u>	pair of opposite angles.
It has all of the propertie	pair of opposite angles.
It has all of the propertie • Its diagonals are <u>.</u> • Each diagonal <u>.</u>	pair of opposite angles.
It has all of the propertie • Its diagonals are • Each diagonal 1) Rhombus MSDB	
It has all of the propertie • Its diagonals are • Each diagonal 1) Rhombus MSDB	
It has all of the propertie Its diagonals are	pair of opposite angles. Which segments are congruent to \overline{S} . Which segment is congruent to \overline{MO}
It has all of the propertie • Its diagonals are • Each diagonal 1) Rhombus MSDB	pair of opposite angles. Which segments are congruent to \overline{S} . Which segment is congruent to \overline{MO}
It has all of the propertie Its diagonals are	pair of opposite angles. Which segments are congruent to \overline{S} . Which segment is congruent to \overline{MO}
It has all of the propertie Its diagonals are	pair of opposite angles. Which segments are congruent to \overline{S} . Which segment is congruent to \overline{MO}
It has all of the propertie Its diagonals are	pair of opposite angles. Which segments are congruent to \overline{S} Which segment is congruent to \overline{MO}

and a province of the second second

2) Rhombus ABCD Find: $m \angle ADC = _$ AB =____ $m \angle AXB =$ $BC = \mathcal{A}$ В 1220 $DC = \cdots$ 24 in $m \angle ABC =$ X $m \angle ACD =$ D С 3)Rhombus HIJK Find: IJ =*KJ* = ____ 5 3 KH =Н 4 1 LJ =HJ =_ κ IK = $m \angle ILH = \pi^{+1}$ $m \angle JLK =$ $m \angle KLH =$ $m \angle HLJ = 1$ True or False A rhombus is a parallelogram that always has four congruent sides.____

A rhombus is always a parallelogram._____

A rhombus a parallelogram that always has four congruent angles.__

Every parallelogram is a rhombus.

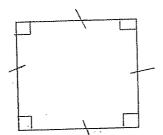
In a rhombus the diagonals are congruent._____

In a rhombus the diagonals bisect each other._____

In a rhombus opposite angles are not congruent.____

Name_____ Basic Geometry

Squares



A square is a parallelogram with 4 congruent sides and 4 congruent angles.

A square is an _____ and an _____ parallelogram.

A square is a _____ quadrilateral.

What are the five properties of a parallelogram?

1) ()2) 3) each offer 1 YIMSY/ 4) ao.M 5)

Why is it special? It has all of the properties of a parallelogram PLUS

1) Square ABCD	Which segments are congruent to AB
	Which segment is congruent to \overline{BD} ? What segments are congruent to $\overline{\overline{AE}}$?
	What is $m \angle BEC?$
	What is <i>m∠BCD</i> ?
) Square ABCD	Find: $AB = _$ $m \angle EBC = _$ $BC = _$ $m \angle EAD = _$
A 20	$BC = _ \qquad mZEAD = _$ $DC = _$ $AC = _$ $DE = _$
D C	$DB = _$ $m \angle ABC = ____$ $m \angle BCD = ____$
	$m \angle AEB = ___$ $m \angle DEC = ___$
True or False Every square is a rectangle and a rhom	bus

e - en per regione des Securit quint de securit de

Every parallelogram is a square._____

A square has 4 congruent sides.

A square is always a parallelogram._____

A square a parallelogram that always has four congruent angles._____

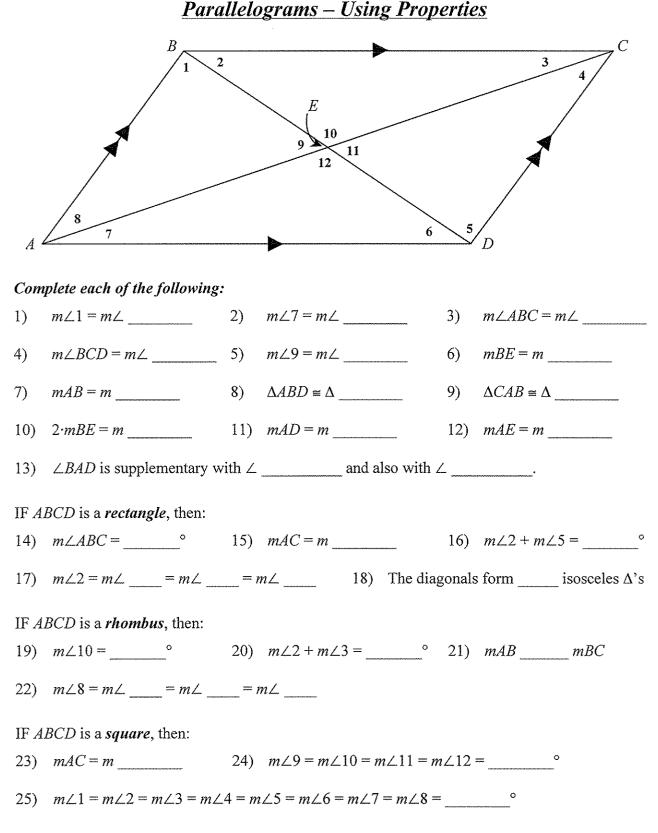
In a square the diagonals are congruent._____

In a square the diagonals bisect each other._____

In a square opposite angles are not congruent._____

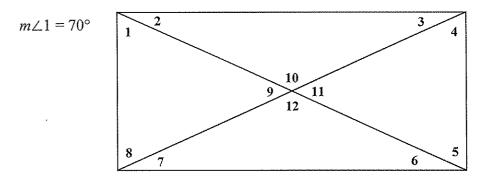
Geometry	,
----------	---

WORKSHEET: Parallelogram Properties



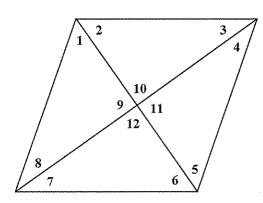
Fill in all the numbered angles with the appropriate angle measures.

RECTANGLE...



RHOMBUS...





SQUARE...

