

2/8
Fri

STUDY GUIDE

FOLDABLES™

Use your Chapter 8 Foldable to help you study for your chapter test.

VOCABULARY PUZZLEMAKER

To make a crossword puzzle, word search, or jumble puzzle of the vocabulary words in Chapter 8, go to:

www.glencoe.com/sec/math/t_resources/free/index.php

BUILD YOUR VOCABULARY

You can use your completed Vocabulary Builder (pages 146–147) to help you solve the puzzle.

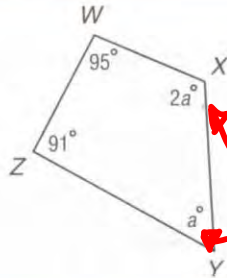
8-1

Quadrilaterals

- Name the side opposite \overline{WZ} . XY
- Name two diagonals. XZ & WY
- Name the vertex opposite Z. X
- Name all consecutive sides.

\overline{XY} & \overline{YZ} , \overline{YZ} & \overline{ZW} , \overline{ZW} & \overline{WX} , \overline{WX} & \overline{XY}

- Find $m\angle X$ and $m\angle Y$. 116, 58



$$360 = 95 + 2a + 91 + a$$

$$360 = 186 + 3a$$

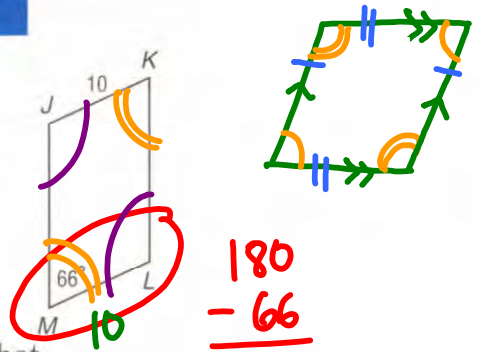
$$\begin{array}{r} -186 \\ \hline 174 = 3a \\ \hline 58 = a \end{array}$$

8-2

Parallelograms

Given that JKLM is a parallelogram find the missing measures.

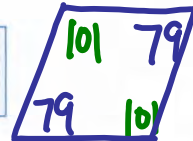
- | | | | |
|----------------|-----|----------------|-----|
| 6. $m\angle L$ | 114 | 7. $m\angle J$ | 114 |
| 8. LM | 10 | 9. $m\angle K$ | 66 |



$$\begin{array}{r} 180 \\ -66 \\ \hline 114 \end{array}$$

- If the measure of one angle of parallelogram PQRS is 79, what are the measures of the other three interior angles?

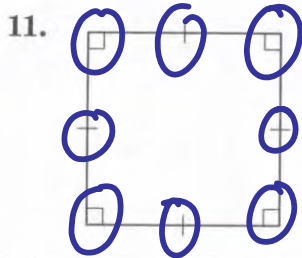
101, 79, 101



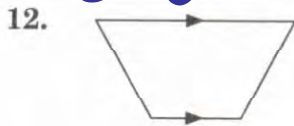
8-3

Tests for Parallelograms

State whether each figure is a parallelogram. Justify your reason.

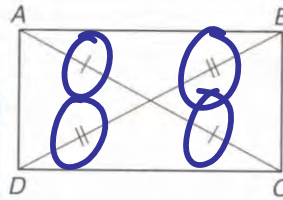


Yes. $\rightarrow \cong \angle s$
 $\rightarrow \cong sides$
 $\rightarrow square$



No, $\rightarrow trapezoid$

13. Explain why quadrilateral $ABCD$ is a parallelogram.



Diagonals bisect each other...

8-4

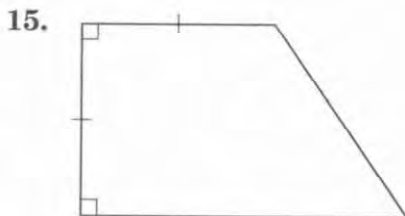
Rectangles, Rhombi, and Squares

Underline the best term to complete the statement.

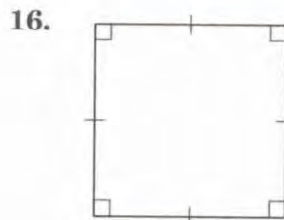
14. A parallelogram with four congruent sides is a rhombus [rectangle].

Identify each figure with as many terms as possible. Indicate if no term applies.

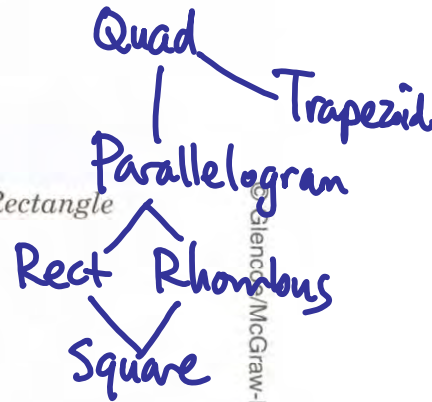
Quadrilateral Parallelogram Square Rhombus Rectangle



Quadrilateral



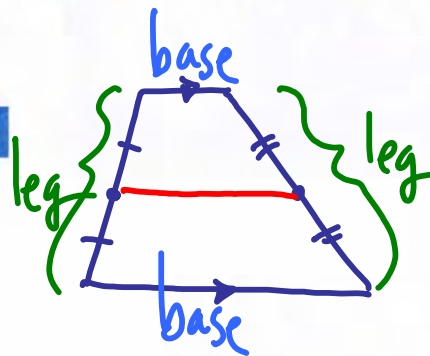
Square



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8-5

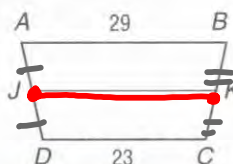
Trapezoids



Complete each statement.

- 17. The segment that joins the midpoints of each leg of a trapezoid is the **median**.
- 18. A **trapezoid** is a quadrilateral with exactly one pair of parallel sides.
- 19. The nonparallel sides of a trapezoid are its **legs**.
- 20. The parallel sides of a trapezoid are its **bases**.

Refer to trapezoid $ABCD$ with median \overline{JK} . Name each of the following.



- 21. bases **$\overline{AB}, \overline{CD}$**
- 22. legs **$\overline{AD}, \overline{BC}$**
- 23. base angle pairs **$\angle A \cong \angle B, \angle C \cong \angle D$**

24. If $AB = 29$ and $DC = 23$, what is JK ?

$$\frac{29 + 23}{2} = \frac{52}{2} = 26$$

25. If $AD = 18$, find JD .

$$\frac{1}{2}(18) = 9$$

26. If $WXYZ$ is an isosceles trapezoid and one base angle measures 66 , what are the remaining angle measures?

114, 66, 114

ARE YOU READY FOR THE CHAPTER TEST?



Visit geomconcepts.com to access your textbook, more examples, self-check quizzes, and practice tests to help you study the concepts in Chapter 8.

Check the one that applies. Suggestions to help you study are given with each item.

I completed the review of all or most lessons without using my notes or asking for help.

- You are probably ready for the Chapter Test.
- You may want to take the Chapter 8 Practice Test on page 345 of your textbook as a final check.

I used my Foldable or Study Notebook to complete the review of all or most lessons.

- You should complete the Chapter 8 Study Guide and Review on pages 342–344 of your textbook.
- If you are unsure of any concepts or skills, refer back to the specific lesson(s).
- You may also want to take the Chapter 8 Practice Test on page 345.

I asked for help from someone else to complete the review of all or most lessons.

- You should review the examples and concepts in your Study Notebook and Chapter 8 Foldable.
- Then complete the Chapter 8 Study Guide and Review on pages 342–344 of your textbook.
- If you are unsure of any concepts or skills, refer back to the specific lesson(s).
- You may also want to take the Chapter 8 Practice Test on page 345.

Student Signature	Parent/Guardian Signature
Teacher Signature	