

LESSON
8.4

Practice A

For use with the lesson "Properties of Rhombuses, Rectangles, and Squares"

For any rhombus $ABCD$, decide whether the statement is *always* or *sometimes* true. Draw a diagram and *explain* your reasoning.

1. $\angle A \cong \angle C$

2. $\overline{DA} \cong \overline{AB}$

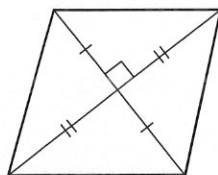
For any rectangle $FGHJ$, decide whether the statement is *always* or *sometimes* true. Draw a diagram and *explain* your reasoning.

3. $\angle G \cong \angle H$

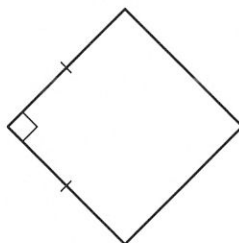
4. $\overline{JF} \cong \overline{FG}$

Classify the parallelogram. *Explain* your reasoning.

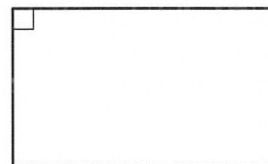
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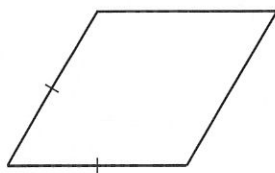
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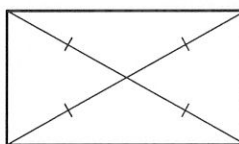
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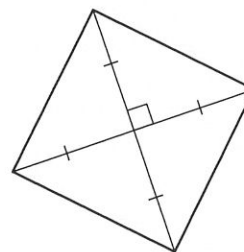
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9.

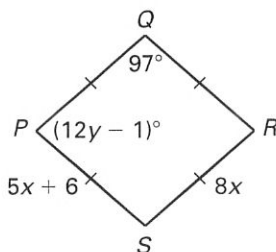


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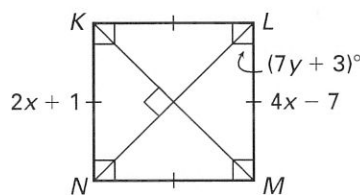


Classify the special quadrilateral. *Explain* your reasoning. Then find the values of x and y .

11.



12.



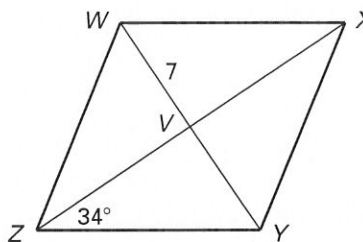
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Practice A *continued*
For use with the lesson "Properties of Rhombuses, Rectangles, and Squares"

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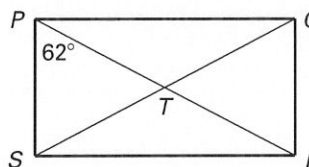
The diagonals of rhombus $WXYZ$ intersect at V . Given that $m\angle XZY = 34^\circ$ and $WV = 7$, find the indicated measure.

13. $m\angle WZV$ 14. $m\angle XYZ$
15. WY 16. XY



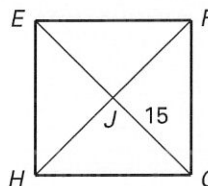
The diagonals of rectangle $PQRS$ intersect at T . Given that $m\angle RPS = 62^\circ$ and $QS = 18$, find the indicated measure.

17. $m\angle QPR$ 18. $m\angle PTQ$
19. ST 20. PR



The diagonals of square $EFGH$ intersect at J . Given that $GJ = 15$, find the indicated measure.

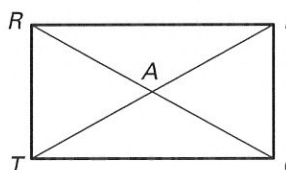
21. $m\angle EJF$ 22. $m\angle JFG$
23. FH 24. EJ



25. Complete the proof.

GIVEN: $RECT$ is a rectangle.

PROVE: $\triangle ART \cong \triangle ACE$



Statements	Reasons
1. $\underline{\quad ? \quad}$	1. Given
2. $\overline{RT} \cong \overline{EC}$ $\overline{RT} \parallel \overline{EC}$	2. $\underline{\quad ? \quad}$
3. $\underline{\quad ? \quad}$	3. Alternate Interior \sphericalangle s are \cong .
4. $\underline{\quad ? \quad}$	4. Vertical \sphericalangle s are \cong .
5. $\triangle ART \cong \triangle ACE$	5. $\underline{\quad ? \quad}$