

Name _____

Date _____

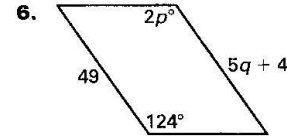
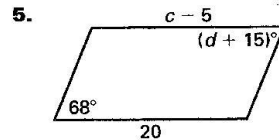
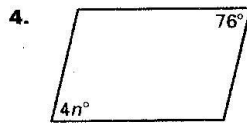
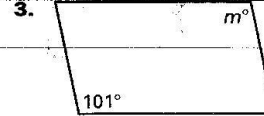
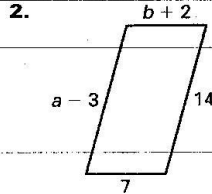
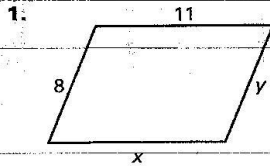


LESSON
8.2

Practice A

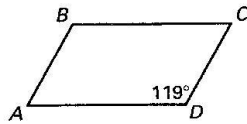
For use with pages 514–521

Find the value of each variable in the parallelogram.

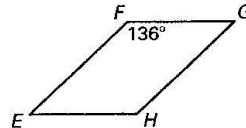


Find the measure of the indicated angle in the parallelogram.

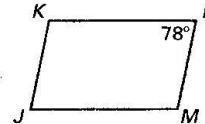
7. Find $m\angle C$.



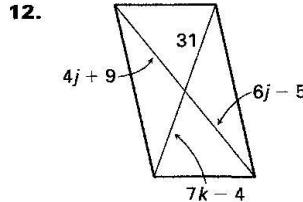
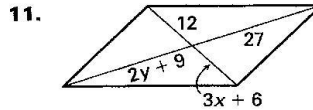
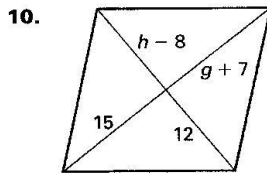
8. Find $m\angle E$.



9. Find $m\angle K$.



Find the value of each variable in the parallelogram.



Use the diagram of parallelogram $MNOP$ at the right to copy and complete the statement. *Explain.*

13. $\overline{MN} \cong ?$

14. $\overline{MN} \parallel ?$

15. $\overline{ON} \cong ?$

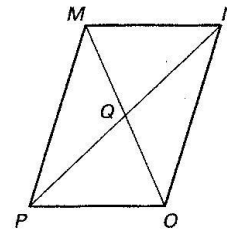
16. $\angle MPO \cong ?$

17. $\overline{PQ} \cong ?$

18. $\overline{QM} \cong ?$

19. $\angle MQN \cong ?$

20. $\angle NPO \cong ?$



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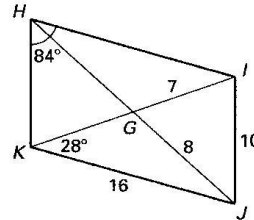
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LESSON 8.2 Practice A *continued*
For use with pages 514–521

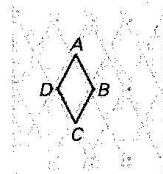
Find the indicated measure in $\square HIJK$. Explain.

- | | |
|-------------------|-------------------|
| 21. HI | 22. KH |
| 23. GH | 24. HJ |
| 25. $m\angle KIH$ | 26. $m\angle JIH$ |
| 27. $m\angle KJI$ | 28. $m\angle HKI$ |



29. The measure of one interior angle of a parallelogram is twice the measure of another angle. Find the measure of each angle.
30. The measure of one interior angle of a parallelogram is 30 degrees more than the measure of another angle. Find the measure of each angle.

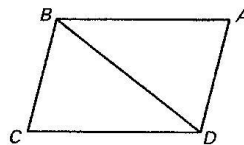
The crossing slats of a gate form parallelograms that move together to make the gate wider. In Exercises 31–34, use the figure at the right.



31. What is $m\angle A$ when $m\angle B = 110^\circ$?
32. What is $m\angle D$ when $m\angle B = 130^\circ$?
33. What happens to $m\angle A$ when $m\angle B$ decreases?
34. What happens to AC when $m\angle B$ increases?
35. Complete the proof.

GIVEN: $ABCD$ is a \square .

PROVE: $\triangle ABD \cong \triangle CDB$



Statements	Reasons
1. $ABCD$ is a \square .	1. ?
2. ?	2. Opposite sides of \square are \cong .
3. ?	3. Opposite sides of \square are \cong .
4. $\angle A \cong \angle C$	4. ?
5. $\triangle ABD \cong \triangle CBD$	5. ?

LESSON 8.2

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