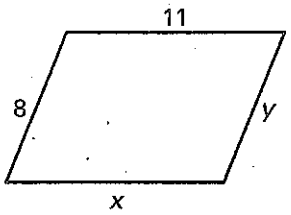
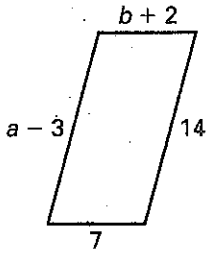
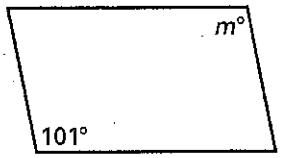
Name _____ Date _____

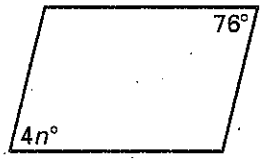
LESSON 5.8 Practice

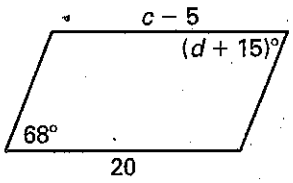
Find the value of each variable in the parallelogram.

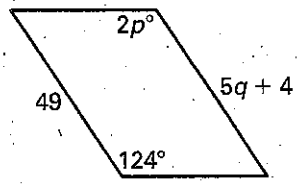
1. 

2. 

3. 

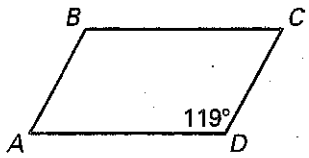
4. 

5. 

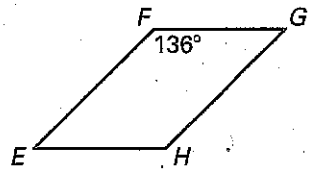
6. 

Find the measure of the indicated angle in the parallelogram.

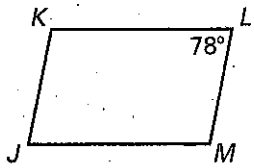
7. Find $m\angle C$.



8. Find $m\angle E$.



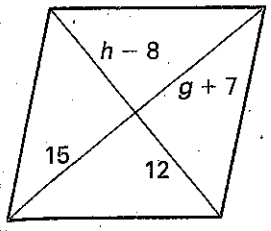
9. Find $m\angle K$.

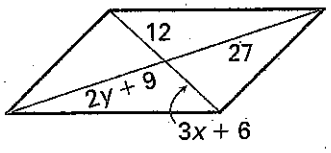


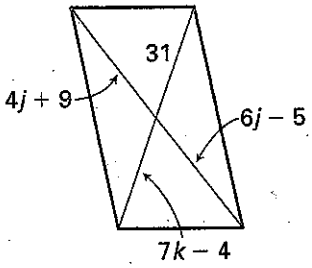
Name _____ Date _____

LESSON 5.8 **Practice** *continued*

Find the value of each variable in the parallelogram.

10. 

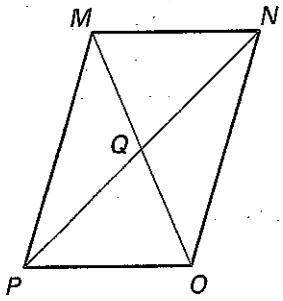
11. 

12. 

Use the diagram of parallelogram *MNOP* at the right to 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. $\overline{QM} \cong$ _____

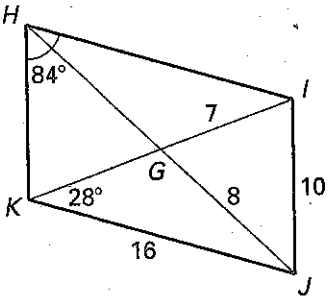
19. $\angle MQN \cong$ _____

20. $\angle NPO \cong$ _____

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

21. HI

22. KH



23. GH

24. HJ

25. $m\angle KIH$

26. $m\angle JIH$

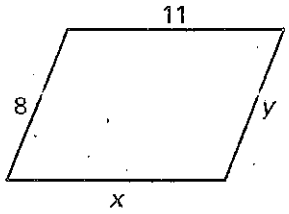
27. $m\angle KJI$

28. $m\angle HKI$

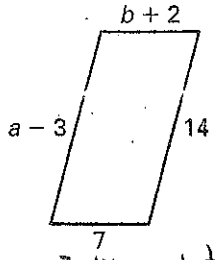
Name Key Date

LESSON 5.8 Practice

Find the value of each variable in the parallelogram.

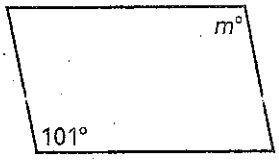
1. 

$x = 11, y = 8$

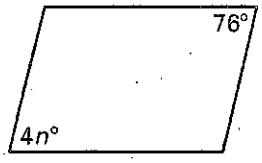
2. 

$a - 3 = 14$ $b + 2 = 7$

$a = 17$ $b = 5$

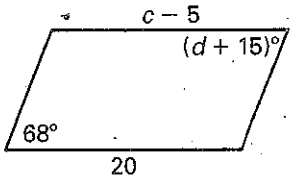
3. 

$m = 101$

4. 

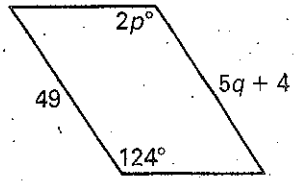
$\frac{4n}{4} = \frac{76}{4}$

$n = 19$

5. 

$c - 5 = 20$ $d + 15 = 68$

$c = 25$ $d = 53$

6. 

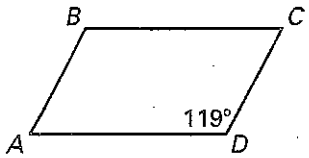
$2p = 124$ $5q + 4 = 49$

$p = 62$ $5q = 45$

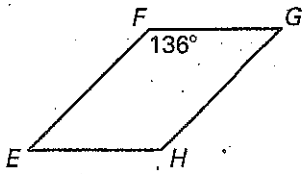
$q = 9$

Find the measure of the indicated angle in the parallelogram.

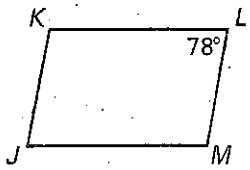
7. Find $m\angle C$. $= 61°$



8. Find $m\angle E$. $= 44°$



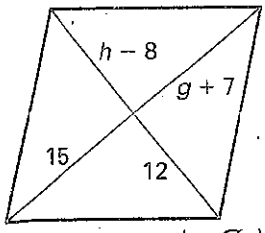
9. Find $m\angle K$. $= 102°$



Name Key Date

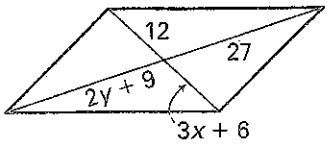
LESSON 5.8 **Practice** *continued*

Find the value of each variable in the parallelogram.

10. 

$g+7=15$ $h-8=12$

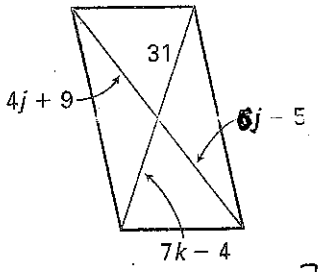
$g=8$ $h=20$

11. 

$3x+6=12$ $2y+9=27$

$3x=6$ $2y=18$

$x=2$ $y=9$

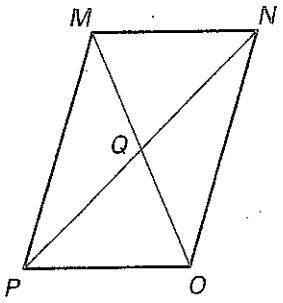
12. 

$4j+9=6j-5$ $7k-4=31$

$14=2j$ $7k=35$

$j=7$ $k=5$

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



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

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

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

16. $\angle MPO \cong$ $\angle MNO$

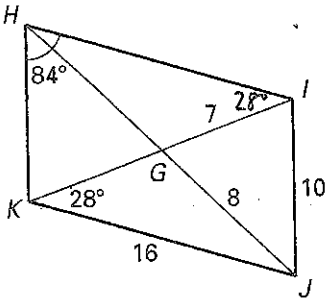
17. $\overline{PQ} \cong$ $\overline{QN}$

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

19. $\angle MQN \cong$ $\angle PQO$

20. $\angle NPO \cong$ $\angle MNP$
(alternate interior angles)

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



21. HI 16

22. KH 10

23. GH 8

24. HJ 16

25. $m\angle KIH$ 28°

26. $m\angle JIH$ 96°

27. $m\angle KJI$ 84°

28. $m\angle HKI$ 68°