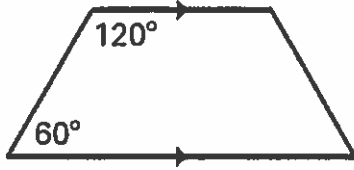


Geometry, Chapter 8 Test

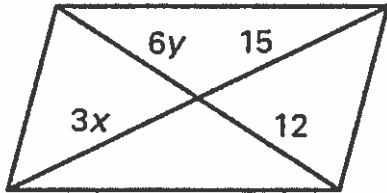
1. Give the most specific name for the quadrilateral.



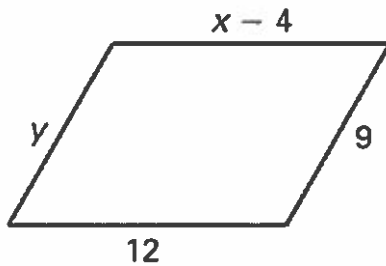
2. For any rectangle $CMXZ$, decide whether the statement is *always*, *sometimes*, or *never* true.

$$\overline{CM} \cong \overline{MX}$$

3. Find the value of each variable in the parallelogram.



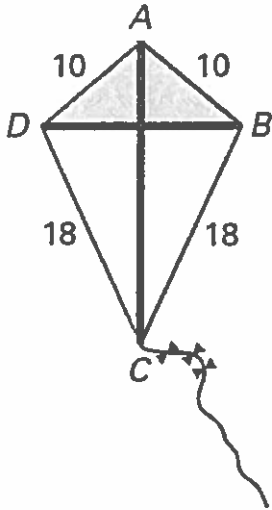
4. Find the value of each variable in the parallelogram.



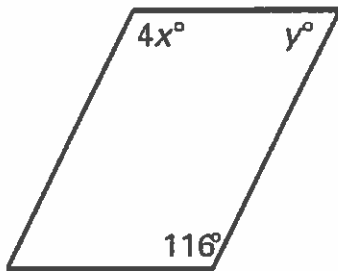
Name: _____

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5. In the kite shown, $m\angle ADC = 105^\circ$ and $m\angle DAB = 100^\circ$. Find $m\angle DCB$.



6. Find the value of each variable in the parallelogram.



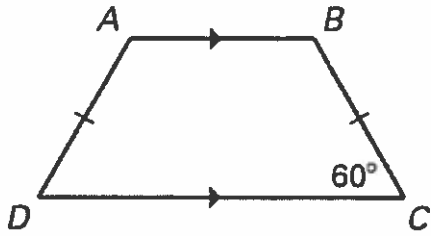
7. For any rectangle $CMXZ$, decide whether the statement is *always*, *sometimes*, or *never* true.

$$\overline{ZX} \cong \overline{CM}$$

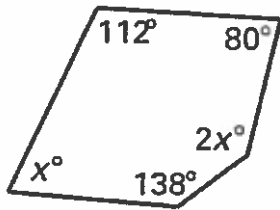
Name: _____

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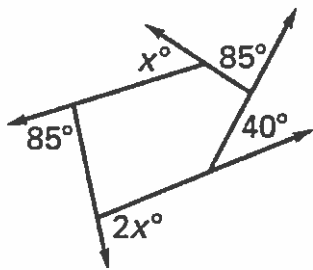
8. Find $m\angle B$.



9. Find the value of x .



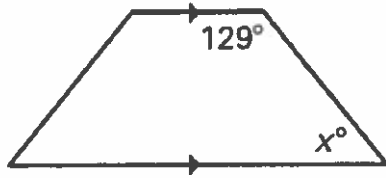
10. Find the value of x .



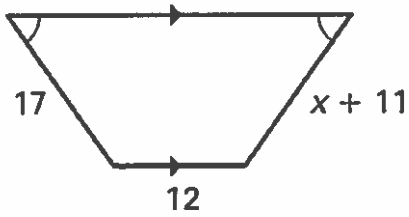
Name: _____

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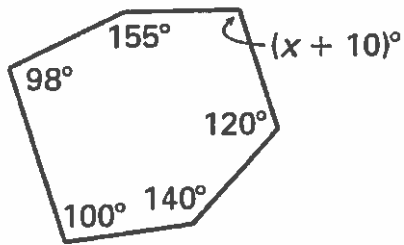
11. Find the value of x .



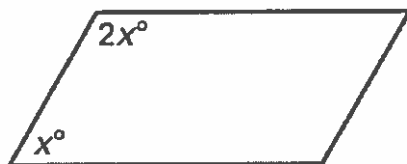
12. Find the value of x .



13. Find the value of x .



14. Find the value of x in the parallelogram.



Name: _____

ID: A

15. For any rectangle $CMXZ$, decide whether the statement is *always*, *sometimes*, or *never* true.

$$\overline{CM} \perp \overline{ZX}$$

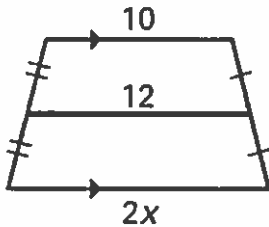
16. For any rectangle $CMXZ$, decide whether the statement is *always*, *sometimes*, or *never* true.

$$\overline{ZM} \cong \overline{CX}$$

17. Give the most specific name for the quadrilateral.



18. Find the value of x .



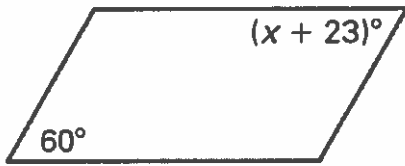
19. For any rectangle $CMXZ$, decide whether the statement is *always*, *sometimes*, or *never* true.

$$\angle Z \cong \angle M$$

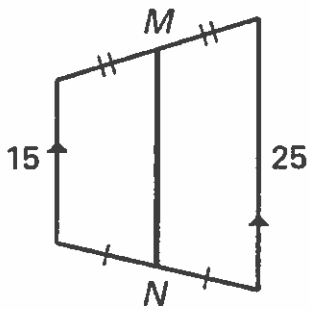
Name: _____

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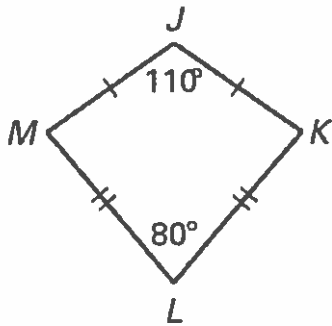
20. Find the value of x in the parallelogram.



21. Find the length of the midsegment of the trapezoid.



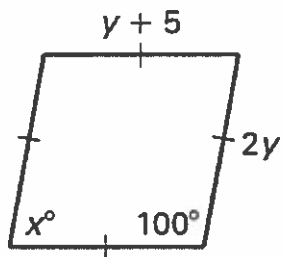
22. $JKLM$ is a kite. Find $m\angle K$.



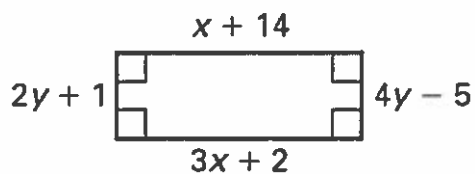
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23. Classify the special quadrilateral. Then find the values of x and y .



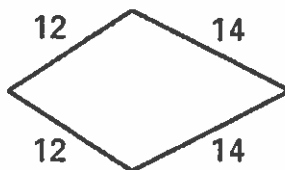
24. Classify the special quadrilateral. Then find the values of x and y .



25. For any rectangle $CMXZ$, decide whether the statement is *always*, *sometimes*, or *never* true.

$$\angle CMZ \cong \angle XZM$$

26. Give the most specific name for the quadrilateral.



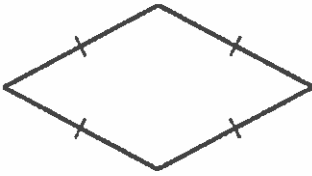
27. Find the sum of the measures of the interior angles of the indicated convex polygon.

Decagon

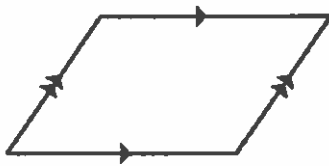
Name: _____

ID: A

28. Give the most specific name for the quadrilateral.



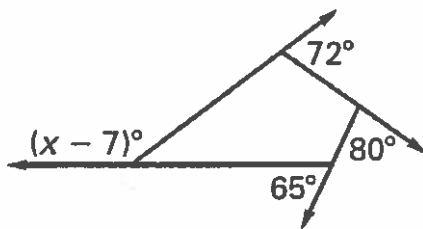
29. Give the most specific name for the quadrilateral.



30. The sum of the measures of the interior angles of a convex polygon is given. Classify the polygon by the number of sides.

1080°

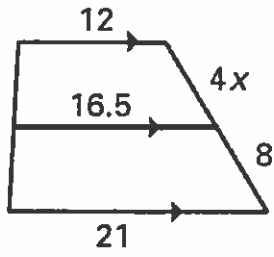
31. Find the value of x .



Name: _____

ID: A

32. Find the value of x .



**Geometry, Chapter 8 Test
Answer Section**

1. trapezoid
2. sometimes
3. $x = 5, y = 2$
4. $x = 16, y = 9$
5. 50°
6. $x = 29, y = 64$
7. always
8. 120°
9. 70
10. 50
11. 51
12. 6
13. 97
14. 60
15. never
16. always
17. rectangle
18. 7
19. always
20. 37
21. 20 units
22. 85°
23. rhombus; $x = 80, y = 5$
24. rectangle; $x = 6, y = 3$
25. always
26. kite
27. 1440°
28. rhombus
29. parallelogram
30. Octagon
31. 150
32. 2