NAME _____ DATE _____ PERIOD ____

6-1 Skills Practice

Angles of Polygons

Find the sum of the measures of the interior angles of each convex polygon.

1. nonagon

2. heptagon

3. decagon

The measure of an interior angle of a regular polygon is given. Find the number of sides in each polygon.

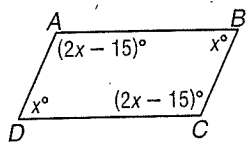
4. 108

5. 120

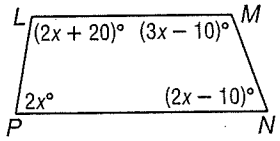
6. 150

Find the measure of each interior angle using the given information.

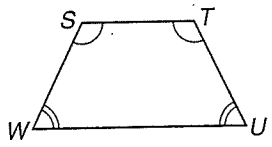
7.



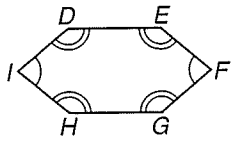
8.



9. quadrilateral $STUW$ with $\angle S \cong \angle T$, $\angle U \cong \angle W$, $m\angle S = 2x + 16$, $m\angle U = x + 14$



10. hexagon $DEFGHI$ with $\angle D \cong \angle E \cong \angle G \cong \angle H$, $\angle F \cong \angle I$, $m\angle D = 7x$, $m\angle F = 4x$



Find the measures of an interior angle and an exterior angle for each regular polygon.

11. quadrilateral

12. pentagon

13. dodecagon

Find the measures of an interior angle and an exterior angle given the number of sides of each regular polygon. Round to the nearest tenth if necessary.

14. 8

15. 9

16. 13

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