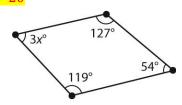
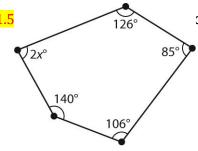
7.1 Show All Work!!

- 1. The interior angles of a triangle have measures of 55°, 25°, and x° . What is x? 100°
- 2. Find *x*.

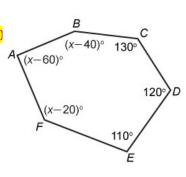
a. x = 20



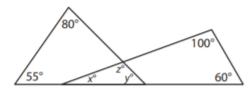
b. x = 41.5



c. x = 160



- 3. Find the number of sides on a polygon with an interior angle sum of 3780°. 23 sides
- 4. Determine the unknown angle measures a hexagon whose six angles measure 69° , 108° , 135° , 204° , b° and $2b^{\circ}$. 68° and 136°
- 5. Determine the measures of angles x, y, and z. x = 20, y = 45, z = 115



6. Find and explain what this student did incorrectly when solving the following problem. What type of polygon would have an interior sum of 1260°?

$$1260 = (n-2)180$$

The student subtracted 2 instead of adding.

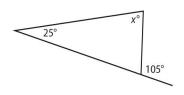
$$7 = n - 2$$

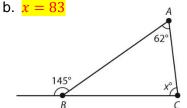
The polygon is a nonagon. (9-sided)

$$5 = n$$

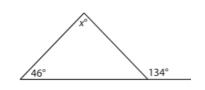
The polygon is pentagon.

- 7. Find *x*.
 - a.





c. x = 88



 $x = 103^{\circ}$

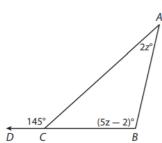
Find $m \angle B$.

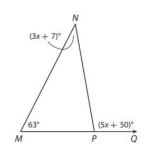
9. <mark>37°</mark>

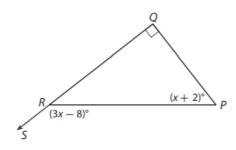
Determine $m \angle N$ in $\triangle MNP$.

10. <mark>142°</mark>

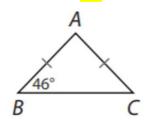
Find m∠PRS.



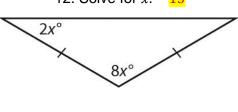




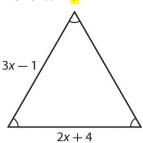
- 7.2 Isosceles and Equilateral Triangles Show all work!!
- 11. Find $m \angle A$. 88°



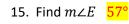
12. Solve for x.



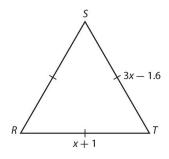
13. Solve for x. 5

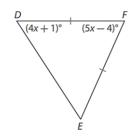


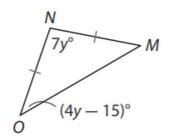
14. Find \overline{RS} 2.3



15. Find $m \angle 0$ 41°







16. Show work on the figure.

Match each angle with its corresponding measure, given $m\angle 1=130^{\circ}$ and $m\angle 7=70^{\circ}$. Indicate a match by writing the letter for the angle on the line in front of the corresponding angle measure.

A. m∠2



B. m∠3

- 60°

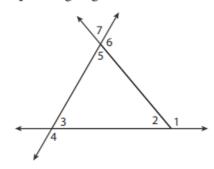
50°

C. m∠4

- 70°

D. m∠5

- 110°
- 120°



E. m∠6