Name_____ Date_____

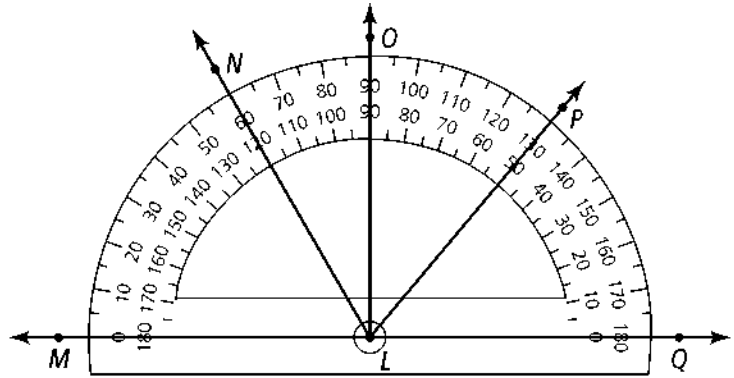# 1.3 – Angles and Measurement

Use the diagram below for #1–8. Find the measure of each angle.

1. ∠MLN
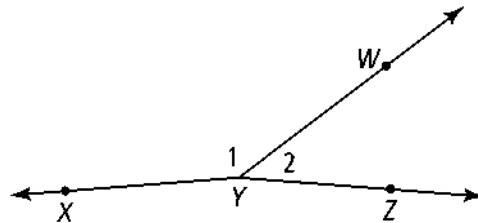
2. ∠NLP

3. ∠NLQ

4. ∠OLP

5. ∠MLQ

Classify each angle as *acute, right, obtuse,* or *straight.*

6. ∠OLP   7. ∠OLQ   8. ∠MLQ

Use the figure at the right for #9 and 10.
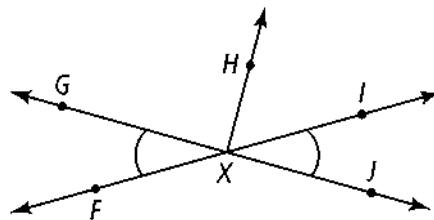
9. What is another name for ∠XYW?

10. What is another name for ∠WYZ?

11. ∠JKL and ∠CDE are congruent. If $m\angle JKL = 137$, what is $m\angle CDE?$

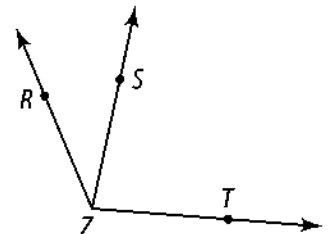Use the figure at the right for #12–15 $m\angle FXH = 130$ and $m\angle FXG = 49$.

12. ∠FXG ≅ ▢   15. ∠IXJ ≅ ▢
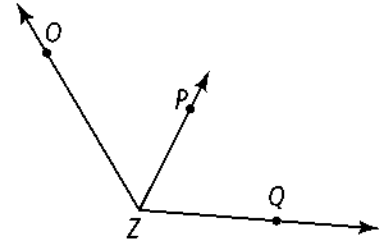
13. $m\angle GXH =$ ▢

14. Name a straight angle in the figure.

16. If $m\angle RZT = 110$, $m\angle RZS = 3s,$ and $m\angle TZS = 8s,$ what are $m\angle RZS$ and $m\angle TZS?$

17. Algebra $m\angle OZP = 4r + 2$, $m\angle PZQ = 5r - 12$, and $m\angle OZQ = 125$. What are $m\angle OZP$ and $m\angle PZQ$?

18. Reasoning Elsa draws an angle that measures 56. Tristan draws a congruent angle. Tristan says his angle is obtuse. Is he correct? Why or why not?

19. Lisa makes a cherry pie and an apple pie. She cuts the cherry pie into six equal wedges and she cuts the apple pie into eight equal wedges. How many degrees greater is the measure of a cherry pie wedge than the measure of an apple pie wedge?

20. Reasoning $\angle JNR$ and $\angle RNX$ are congruent. If the sum of the measures of the two angles is 180, what type of angle are they?

21. A new pizza place in town cuts their circular pizzas into 12 equal slices. What is the measure of the angle of each slice?