# Handout 1.4: Measuring Angles 

Name: $\qquad$ Date: $\qquad$ Per: $\qquad$
Name each angle is three different ways.
1.

2.

3.


Use the diagram below. Find the measure of each angle and classify it as acute, right, obtuse, or straight.
4. $\angle M L N$
5. $\angle N L P$
6. $\angle N L Q$
7. $\angle O L P$

8. $\angle M L Q$

Use the diagram at the right.
9. What are two other names for $\angle X Y W$ ?
10. What are two other names for $\angle W Y Z$ ?


Use the diagram at the right to complete each statement.
11. $\angle M I G \cong \square$
12. $\angle P M J \cong \square$
13. If $m \angle K J L=30$, then $m \angle \square=30$.
14. If $m \angle L M P=100$, then $m \angle Q H G=$ $\square$

15. $\angle J N R$ and $\angle R N X$ are congruent. If the sum of the measures of the two angles is 180 , what type of angle are they?
16. If $m \angle F H I=142$, what are $m \angle F H G$ and $m \angle G H I$ ?

18. If $m \angle R Z T=110, m \angle R Z S=3 s$, and $m \angle T Z S=8 s$, what are $m \angle R Z S$ and $m \angle T Z S$ ?

17. $\angle J K L$ is a right angle. What are $m \angle J K M$ and $m \angle M K L$ ?

19. $m \angle O Z P=4 r+2, m \angle P Z Q=5 r-12$, and $m \angle O Z Q=125$. What are $m \angle O Z P$ and $m \angle P Z Q$ ?


Use the figure at the right for Exercises 20-23. $m \angle F X H=130$ and $m \angle F X G=49$.
20. $\angle F X G \cong$ $\square$
21. $m \angle G X H=\square$
22. Name a straight angle in the figure.

23. $\angle I X J \cong$ $\square$
24. 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?
25. 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?

Use the diagram to the right for 26-27.
26. If $m \angle C G D=4 x+2, m \angle D G E=3 x-5, m \angle E G F=2 x+10$, find the value of $x$.

27. If $m \angle C G D=2 x-2, m \angle E G F=37, m \angle C G F=7 x+2$, find the value of $x$.

