Name _____ Date _____ Class _____

LESSON 8-1

Geometry Review

Building Blocks of Geometry

Identify the figures in the diagram.

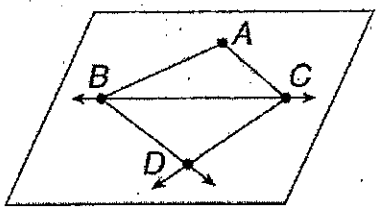
1. three points _____

2. one line _____

3. a plane _____

4. four rays _____

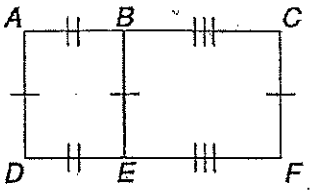
5. three line segments _____



6. Identify the line segments that are congruent in the figure.

_____

_____



LESSON 8-2

Classifying Angles

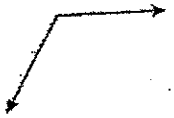
Tell whether each angle is acute, right, obtuse, or straight.

7. 

_____

8. 

_____

9. 

_____

10. Angles W and X are supplementary. If $m\angle W$ is 37°, what is $m\angle X$? _____

11. Angles S and T are complementary. If $m\angle S$ is 64°, what is $m\angle T$? _____

12. Angles C and D are supplementary. If $m\angle C$ is 83°, what is $m\angle D$? _____

13. Angles U and V are complementary. If $m\angle U$ is 41°, what is $m\angle V$? _____

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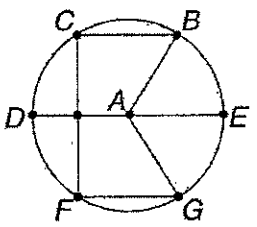
LESSON 8-4

Properties of Circles

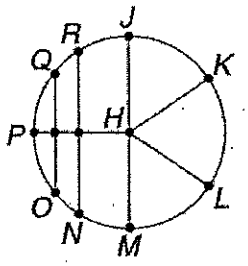
Name the parts of circle *A*.

14. radii _____
15. diameters _____
16. chords _____



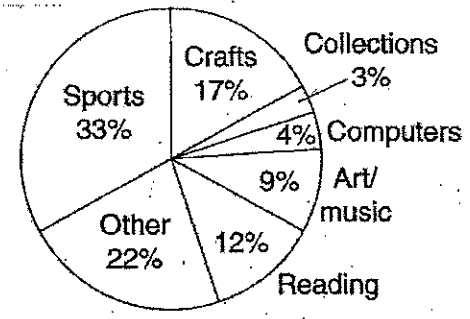
Name the parts of circle *H*.

17. radii _____
18. diameters _____
19. chords _____



Write the correct answer.

The circle graph shows the results of a survey in which people were asked to name their hobbies.



20. If 1,000 people were surveyed, how many said that collecting things is their favorite hobby?

_____

21. Find the central angle measure of the sector that shows the percent of people who named **sports** as their favorite hobby.

_____

22. Find the central angle measure of the sector that shows the percent of people who named **reading** as their favorite hobby.

_____

23. Find the central angle measure of the sector that shows the percent of people who like to do **crafts** as their favorite hobby. _____

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Name _____ Date _____ Class _____

LESSON 8-3

Line and Angle Relationships

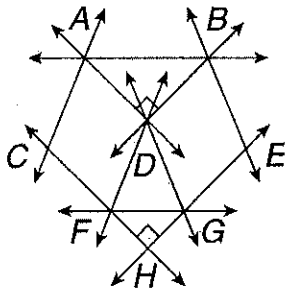
Tell whether the lines appear parallel, perpendicular or skew.

24. $\overleftrightarrow{DF}$ and $\overleftrightarrow{AC}$ _____

25. $\overleftrightarrow{AD}$ and $\overleftrightarrow{BD}$ _____

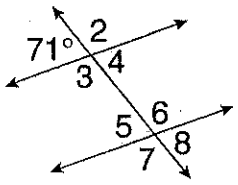
26. $\overleftrightarrow{AD}$ and $\overleftrightarrow{GE}$ _____

27. $\overleftrightarrow{DG}$ and $\overleftrightarrow{BE}$ _____



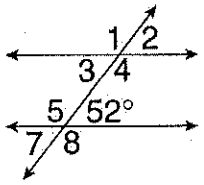
Assume that lines that look parallel are parallel.
Find the measure of each angle.

28. $\angle 4$ and $\angle 6$



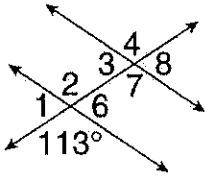
_____

29. $\angle 3$ and $\angle 7$



_____

30. $\angle 3$ and $\angle 8$



_____

31. A pair of supplementary angles is congruent. What is the measure of each angle?

_____

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