$\qquad$
Unit 5 Review
In the diagrams below, W is the midpoint of $\overline{Q R}$ and Y is the midpoint of $\overline{Q S}$. Find the value of $x$

1. $\overline{W Y}$ is called a $\qquad$ of $\triangle Q R S$.
2. 


3.

4.

5.


In $\triangle J K L, \overline{J R} \cong \overline{R K}, \overline{K S} \cong \overline{S L}$ and $\overline{J T} \cong \overline{T L}$.
6. $\overline{J L} \|$ $\qquad$
7. $\overline{S T} \|$ $\qquad$
8. $\overline{R T} \|$ $\qquad$
9. $\overline{K R} \cong$ $\qquad$ $\cong$ $\qquad$
10. $\overline{K S} \cong$ $\qquad$
$\qquad$

11. $\overline{R S} \cong$ $\qquad$ $\cong$

Find the value of $x$. Explain your reasoning,
12.

13.

14.


Tell whether the information in the diagram allows you to conclude that C is on the perpendicular bisector of $\overline{A B}$.
15.

16.

17.

18. Fill in the blanks

The three medians of a triangles meet at the $\qquad$
The three perpendicular bisectors of a triangles meet at the $\qquad$
The three angle bisectors of a triangles meet at the $\qquad$
The three altitudes of a triangles meet at the $\qquad$
The incenter is the point of concurrency of $\qquad$
The orthocenter is the point of concurrency of $\qquad$
The circumcenter is the point of concurrency of $\qquad$
The centroid is the point of concurrency of $\qquad$
Use the diagram below to answer questions 19-24

19. $\overline{D P}, \overline{E P}, \overline{F P}$ are called $\qquad$
20. What is point $P$ called? $\qquad$
21. $C P=$
22. $A D=$
23. $A C=$
24. $B P=$

Use the figure below to answer questions 25-27

25. $\overline{A P}, \overline{B P}, \overline{C P}$, are called $\qquad$
26. What is point P called? $\qquad$
27. $P X=$

Use the figure below to answer 28 and 29.

28. $\overline{B Z}, \overline{A Y}, \overline{C X}$, are called $\qquad$
29. What is point M called? $\qquad$

In the diagram below, $L S=36 \mathrm{~cm}, T P=20 \mathrm{~cm}, K P=15 \mathrm{~cm}$ and $J R=25 \mathrm{~cm}$.

30. $\overline{S L}, \overline{T J}, \overline{R K}$ are called $\qquad$
31. What is Point P called? $\qquad$
32. $P L=$
33. $P S=$
34. $T J=$
35. $P J=$
36. $J S=$
38. $P R=$
39. $K R=$

Given the following pictures and markings identify if the dotted line is a(n) Midsegment, Angle Bisector,Perpendicular Bisector, Altitude or Median List All the Apply!
40.

41.

42.

43.

44.

45.


List the sides and the angles in order from smallest to largest.
46.

47.


Is it possible to construct a triangle with the given side lengths? If not, explain why.
48. $46,14,60$
49. $4,7,13$
50. $8,15,9$

Describe the possible lengths of the third side of the triangle given the lengths of the other two sides.
51. 5 inches, 6 inches
52. 14 feet, 21 feet
53. 10 feet, 5 yards

Complete with $<,>$ or $=$. Justify your answer.


$$
m \angle B A C \ldots m \angle D A C
$$

55

56.


PR $\qquad$
LM $\qquad$ KN VT
57.

58.

$P Q$ $\qquad$ SR
59.

$A B$ $\qquad$ BC

