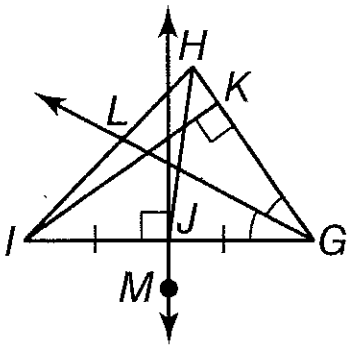
Geometry Name Key Period ____ Date _____

Chapter 5 Test Review

For questions 1-4, match the definition to the segment name.

1.	Median	a. divides a side into two equal segments at a 90° angle
2.	Altitude	b. divides a side into two equal segments
3.	Angle bisector	c. gives the height of the triangle and a 90° angle
4.	Perpendicular bisector	d. divides an angle into two congruent angles

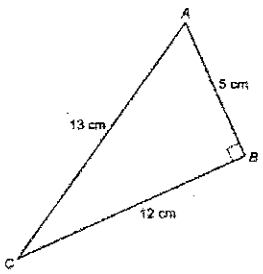
For Questions 5–8, refer to the figure.



5. $\overline{HJ}$ Name a median
6. $\overline{KI}$ Name an altitude
7. $\overleftrightarrow{MJ}$ Name a perpendicular bisector
8. $\overrightarrow{GL}$ Name an angle bisector

For questions 9-10, list the sides and angles in order from smallest to largest.

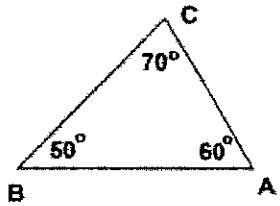
9.



$\angle C, \angle A, \angle B$

$\overline{AB}, \overline{CB}, \overline{AC}$

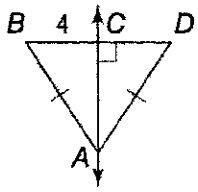
10.



$\angle B, \angle A, \angle C$

$\overline{AC}, \overline{BC}, \overline{BA}$

11. What is the length of $\overline{BD}$?



4 + 4 = 8

Can the following side lengths make a triangle? Write YES or NO.

12. 6, 12, 15
$6 + 12 > 15$
Yes

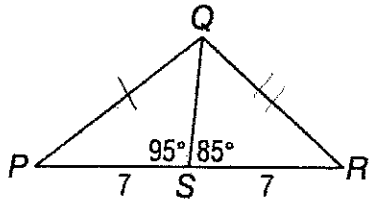
13. 9, 2, 22
$9 + 2 \not> 22$
No

14. 8, 4, 7
$4 + 7 > 8$
Yes

15. 9, 1, 10
$9 + 1 \not> 10$
No

Key

16. Is PQ greater than, less than, or equal to RQ?



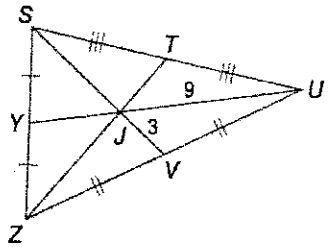
95 > 85 so

Greater than

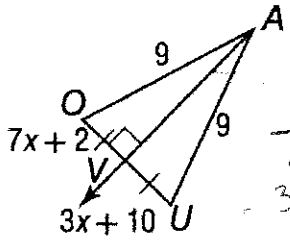
In ΔSZU, J is the centroid, $UJ = 9$, $VJ = 3$, and $ZT = 18$. Find each length.

17. $SV =$ 9

18. $YJ =$ 4.5 $\frac{9}{2}$



19. Find VU.

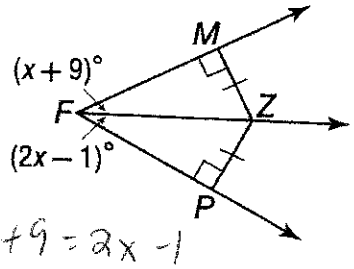


$7x + 2 = 3x + 10$
$-3x \quad -2 \quad -3x \quad -2$
$4x = 8$
$x = 2$

$VU = 3(2) + 10$

VU = 16

20. Find $m < MFZ$.



$x + 9 = 2x - 1$
$-x \quad +1 \quad -x \quad +1$
$10 = x$

$m < MFZ = 19$
$= 10 + 9$

21. The measures of two sides of a triangle are 25 meters and 18 meters. If the measure of the third side is x meters, find the range of values of x.

$25 - 18$ $\qquad$ $25 + 18$

$7 < x < 43$