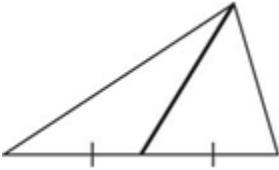


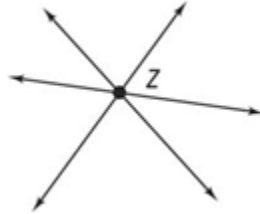
A) Concurrent Lines	B) Point of Concurrency	C) Altitude	D) Angle Bisector	E) Median
F) Perpendicular Bisector	G) Centroid	H) Circumcenter	I) Incenter	J) Orthocenter

Use the word bank above to choose the concept that best represents each line, segment or indicated point.

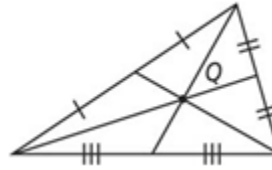
1. \_\_\_\_\_



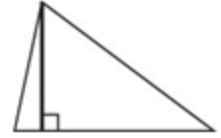
2. Point Z \_\_\_\_\_



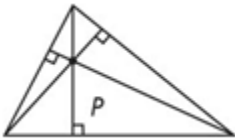
3. Point Q \_\_\_\_\_



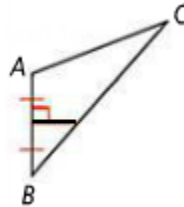
4. \_\_\_\_\_



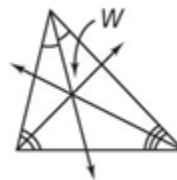
5. Point P \_\_\_\_\_



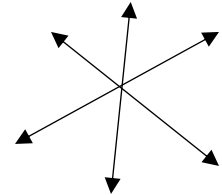
6. \_\_\_\_\_



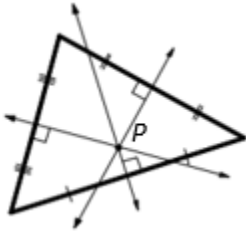
7. Point W \_\_\_\_\_



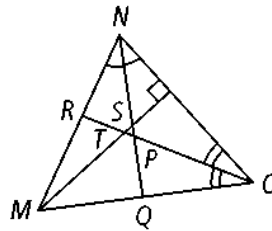
8. \_\_\_\_\_



9. Point P \_\_\_\_\_



10.  $\overline{NQ}$  \_\_\_\_\_,  $\overline{MS}$  \_\_\_\_\_, Point P \_\_\_\_\_



Circle the letter with the name of the correct point of concurrency.

11. The three altitudes of a triangle intersect at the \_\_\_\_\_.

- (a) circumcenter      (b) incenter      (c) centroid      (d) orthocenter

12. The three medians of a triangle intersect at the \_\_\_\_\_.

- (a) circumcenter      (b) incenter      (c) centroid      (d) orthocenter

13. The three perpendicular bisectors of a triangle intersect at the \_\_\_\_\_.

- (a) circumcenter      (b) incenter      (c) centroid      (d) orthocenter

14. The three angle bisectors of a triangle intersect at the \_\_\_\_\_.

- (a) circumcenter      (b) incenter      (c) centroid      (d) orthocenter

15. It divides each median into two sections at a 2:1 ratio.

- (a) circumcenter      (b) incenter      (c) centroid      (d) orthocenter

16. It is equidistant from the three vertices of the triangle.

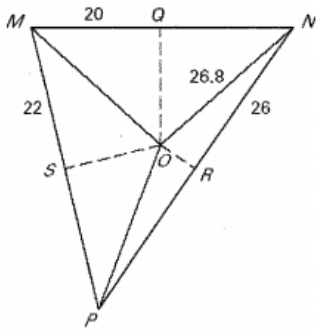
- (a) circumcenter                      (b) incenter                      (c) centroid                      (d) orthocenter

17. It is equidistant from the three sides of the triangle.

- (a) circumcenter                      (b) incenter                      (c) centroid                      (d) orthocenter

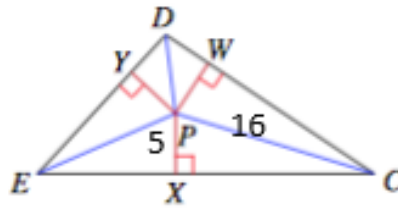
18. Point O is the Circumcenter of  $\triangle MNP$ .

$OP = \underline{\hspace{2cm}}$  and  $SP = \underline{\hspace{2cm}}$



19. Point P is the incenter of  $\triangle CED$

$PY = \underline{\hspace{2cm}}$



**Point S is the centroid of  $\triangle RTW$ ,  $RS = 4$ ,  $VW = 6$ , and  $TV = 9$ . Find the length of each segment.**

20.  $RV = \underline{\hspace{2cm}}$

21.  $SU = \underline{\hspace{2cm}}$

22.  $RU = \underline{\hspace{2cm}}$

23.  $RW = \underline{\hspace{2cm}}$

24.  $TS = \underline{\hspace{2cm}}$

25.  $SV = \underline{\hspace{2cm}}$

