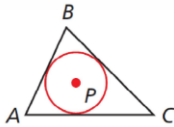


1. Complete each of the following statements using the word bank below to help you. Words may be used once, more than once, or not at all.

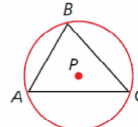
|              |          |          |
|--------------|----------|----------|
| Center       | Incenter | Vertices |
| Circumcenter | Angles   | Sides    |

- a. The name of the point of concurrency for the angle bisectors of a triangle is called a(n) \_\_\_\_\_.
- b. The incenter of a triangle is equidistant from the \_\_\_\_\_ of the triangle.
- c. To circumscribe a circle about a triangle, you use the \_\_\_\_\_.
- d. To inscribe a circle about a triangle, you use the \_\_\_\_\_.
- e. The name of the point of concurrency for the perpendicular bisectors of a triangle is called a(n) \_\_\_\_\_.
- f. The circumcenter of a triangle is equidistant from the \_\_\_\_\_ of the triangle.

g. The diagram below illustrates a(n) \_\_\_\_\_.



h. The diagram below illustrates a(n) \_\_\_\_\_.

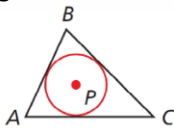


1. Complete each of the following statements using the word bank below to help you. Words may be used once, more than once, or not at all.

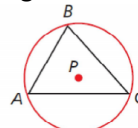
|              |          |          |
|--------------|----------|----------|
| Center       | Incenter | Vertices |
| Circumcenter | Angles   | Sides    |

- a. The name of the point of concurrency for the angle bisectors of a triangle is called a(n) \_\_\_\_\_.
- b. The incenter of a triangle is equidistant from the \_\_\_\_\_ of the triangle.
- c. To circumscribe a circle about a triangle, you use the \_\_\_\_\_.
- d. To inscribe a circle about a triangle, you use the \_\_\_\_\_.
- e. The name of the point of concurrency for the perpendicular bisectors of a triangle is called a(n) \_\_\_\_\_.
- f. The circumcenter of a triangle is equidistant from the \_\_\_\_\_ of the triangle.

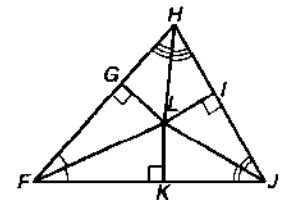
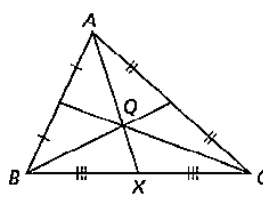
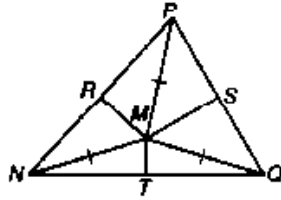
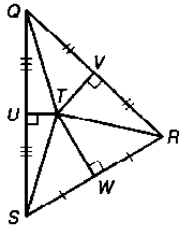
g. The diagram below illustrates a(n) \_\_\_\_\_.



h. The diagram below illustrates a(n) \_\_\_\_\_.



2. Classify the point of concurrency represented in each picture as either a circumcenter, incenter, or centroid.



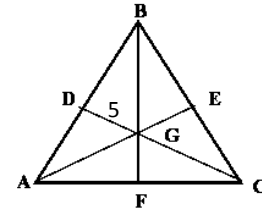
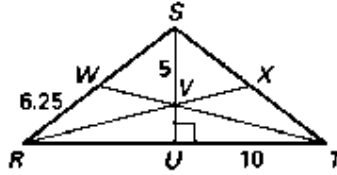
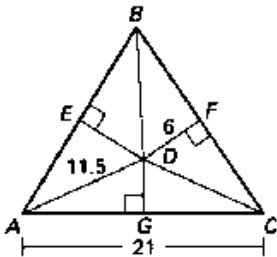
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_

3. Identify each measure using the information given.

a. The perpendicular bisectors of  $\triangle ABC$  are concurrent at point D.

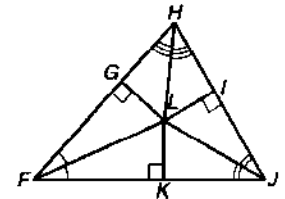
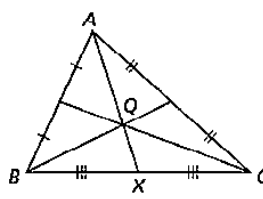
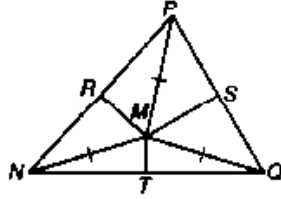
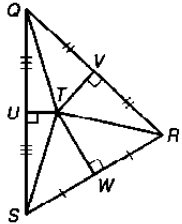
b. Point V is the centroid of  $\triangle RST$ .

c. The medians of  $\triangle ABC$  are concurrent at point G.



What is the measure of  $\overline{BD}$ ? \_\_\_\_\_ What is the measure of  $\overline{VU}$ ? \_\_\_\_\_ What is the measure of  $\overline{GC}$ ? \_\_\_\_\_

2. Classify the point of concurrency represented in each picture as either a circumcenter, incenter, or centroid.



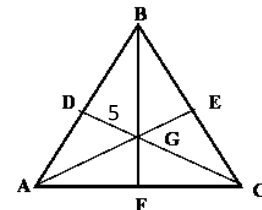
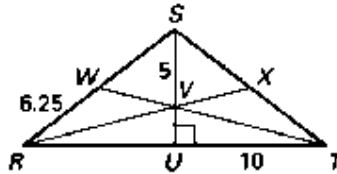
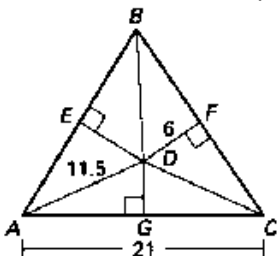
a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_

3. Identify each measure using the information given.

a. The perpendicular bisectors of  $\triangle ABC$  are concurrent at point D.

b. Point V is the centroid of  $\triangle RST$ .

c. The medians of  $\triangle ABC$  are concurrent at point G.



What is the measure of  $\overline{BD}$ ? \_\_\_\_\_ What is the measure of  $\overline{VU}$ ? \_\_\_\_\_ What is the measure of  $\overline{GC}$ ? \_\_\_\_\_

