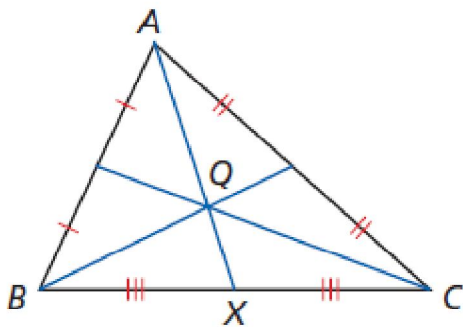


Chapter 5 Quiz

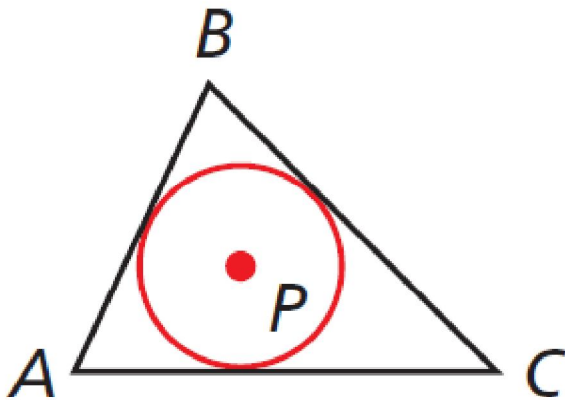
Multiple Choice

Identify the choice that best completes the statement or answers the question.

- In a triangle, a segment connecting the midpoints of two sides of the triangle is called a _____.
 - shortcut
 - midsegment
 - centroid
 - vertex
- Point Q represents which point of concurrency? _____

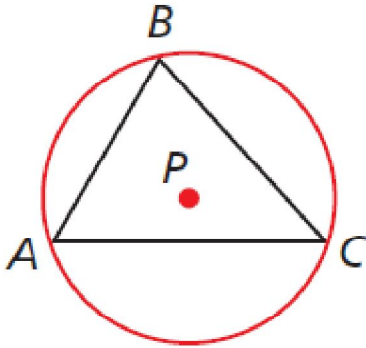


- centroid
 - incenter
 - orthocenter
 - circumcenter
- Point P represents which point of concurrency? _____



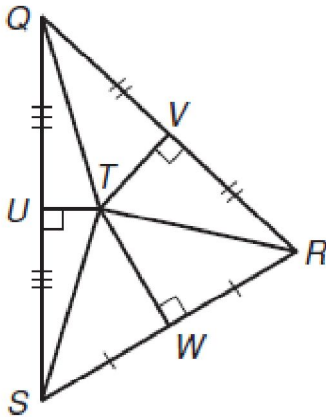
- centroid
- incenter
- orthocenter
- circumcenter

4. Point P represents which point of concurrency?



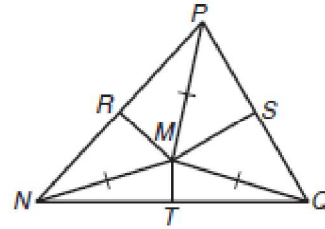
- a. centroid
- b. incenter
- c. orthocenter
- d. circumcenter

5. Point T represents which point of concurrency?



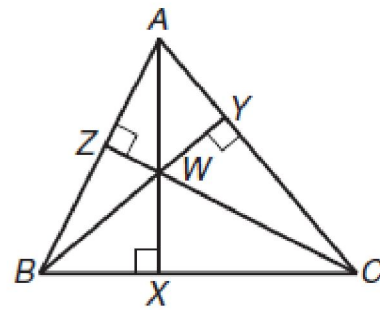
- a. centroid
- b. incenter
- c. orthocenter
- d. circumcenter

6. Point M represents which point of concurrency?



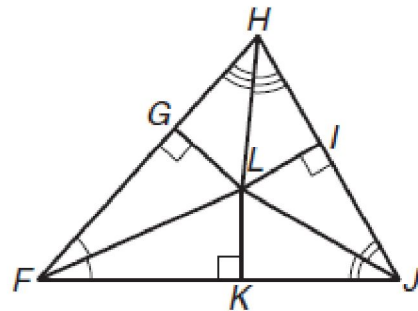
- a. centroid
- b. incenter
- c. orthocenter
- d. circumcenter

7. Point M represents which point of concurrency?



- a. centroid
- b. incenter
- c. orthocenter
- d. circumcenter

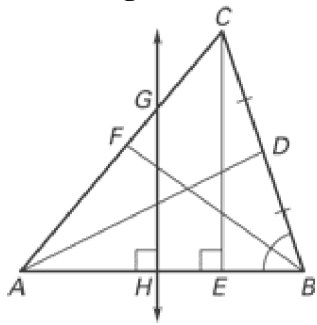
8. Point L represents which point of concurrency?



- a. centroid
- b. incenter
- c. orthocenter
- d. circumcenter

9. Which point of concurrency is the intersection of the medians of the triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
10. Which point of concurrency is the intersection of the altitudes of the triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
11. Which point of concurrency is the intersection of the angle bisectors of the triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
12. Which point of concurrency is the intersection of the perpendicular bisectors of the triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
13. Which point of concurrency is equidistant from the three sides of a triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
14. Which point of concurrency is equidistant from the three vertices of a triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
15. Which point of concurrency is the center of gravity of a triangle?
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
16. The medians of a triangle are concurrent. Their common point is the _____.
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
17. The angle bisectors of a triangle are concurrent. Their common point is the _____.
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
18. The perpendicular bisectors of a triangle are concurrent. Their common point is the _____.
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
19. The altitudes of a triangle are concurrent. Their common point is the _____.
 - a. centroid
 - b. incenter
 - c. orthocenter
 - d. circumcenter
20. The centroid is _____ in the triangle.
 - a. always
 - b. sometimes
 - c. never
21. The incenter is _____ in the triangle.
 - a. always
 - b. sometimes
 - c. never
22. The circumcenter is _____ in the triangle.
 - a. always
 - b. sometimes
 - c. never

Use the figure.



23. Identify a median of $\triangle ABC$.
- \overline{BF}
 - \overleftrightarrow{GH}
 - \overline{AD}
 - \overline{CE}
 - none of these

24. Identify an altitude of $\triangle ABC$.

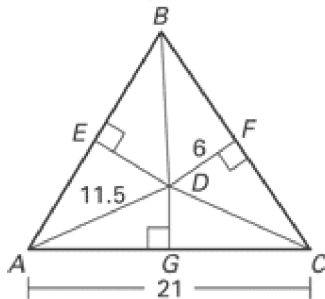
- \overline{CE}
- \overleftrightarrow{GH}
- \overline{BF}
- \overline{AD}
- \overline{CB}

25. In $\triangle ABC$, if $m\angle ABF = 39^\circ$ and \overline{BF} is an angle bisector, find $m\angle BCE$.

- 90°
- 45°
- 39°
- 51°
- 12°

Short Answer

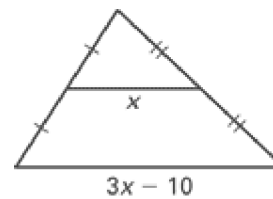
Use the diagram to indicate the measure.



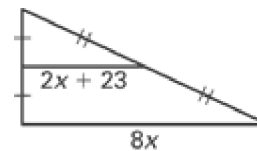
- The perpendicular bisectors of $\triangle ABC$ meet at point D . Find BD .
- The perpendicular bisectors of $\triangle ABC$ meet at point D . Find DC .
- The perpendicular bisectors of $\triangle ABC$ meet at point D . Find BD .
- The perpendicular bisectors of $\triangle ABC$ meet at point D . Find DC .

Find the value of x .

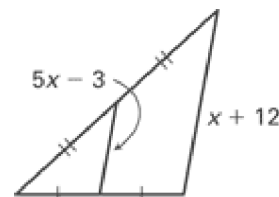
- 30.



- 31.

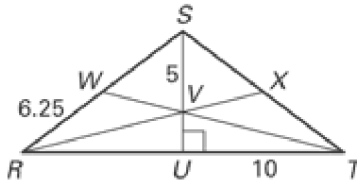


- 32.



Use the diagram and the given information.

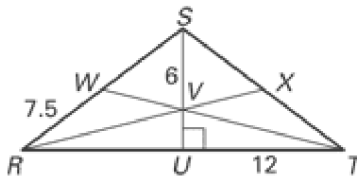
V is the centroid of $\triangle RST$, $\overline{SU} \perp \overline{RT}$, $UT = 10$, $RW = 6.25$, $SV = 5$, and $RS = TS$.



33. Find ST .
34. Find SU .
35. Find UV .
36. Find the perimeter of $\triangle RST$.

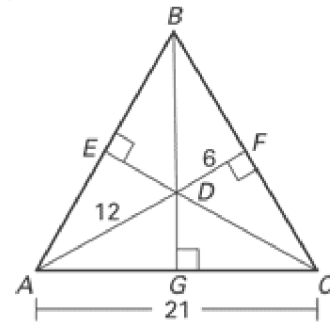
Use the diagram and the given information.

V is the centroid of $\triangle RST$, $\overline{SU} \perp \overline{RT}$, $UT = 12$, $RW = 7.5$, $SV = 6$.



37. Find ST .
38. Find UV .
39. Find the perimeter of $\triangle RST$.
40. Find SU .

Use the diagram to indicate the measure.



41. The perpendicular bisectors of $\triangle ABC$ meet at point D . Find BD .
42. The perpendicular bisectors of $\triangle ABC$ meet at point D . Find DC .
43. Find the perimeter of $\triangle AMC$.

**Chapter 5 Quiz
Answer Section**

MULTIPLE CHOICE

1. B
2. A
3. B
4. D
5. D
6. D
7. C
8. B
9. A
10. C
11. B
12. D
13. B
14. D
15. A
16. A
17. B
18. D
19. C
20. A
21. A
22. B
23. C
24. A
25. E

SHORT ANSWER

26. 11.5
27. 11.5
28. 13.5
29. 13.5
30. 10
31. 11.5
32. 2
33. 12.5
34. 7.5
35. 2.5

- 36. 45
- 37. 15
- 38. 3
- 39. 54
- 40. 9
- 41. 12
- 42. 12
- 43. 57.5