

Scavenger Hunt: Relationships Within Triangles

In this Scavenger Hunt you are going to learn about the Relationships Within Triangles. Use the websites listed below to find the answers to the following Question Set.

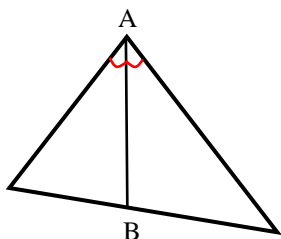
QUESTION SET

Part I: Choose the correct term to complete each sentence.

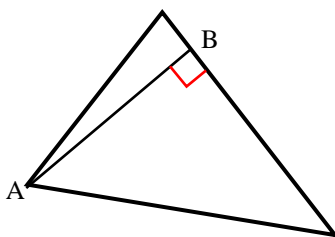
1. A _____ is a segment whose endpoints are a vertex and the midpoint of the side opposite the vertex.
2. The point where three lines intersect is a _____.
3. The _____ of a triangle is a perpendicular segment from a vertex to the line containing the side opposite the vertex.
4. The _____ of a triangle is the point of concurrency of the angle bisectors of the triangle.

Part II: Determine whether \overline{AB} is a perpendicular bisector, and angle bisector, a median, an altitude, or none of these.

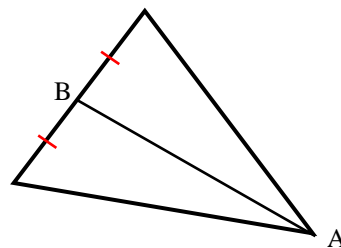
5.



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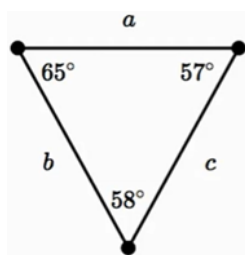
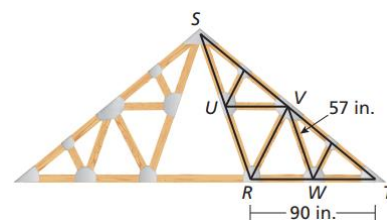


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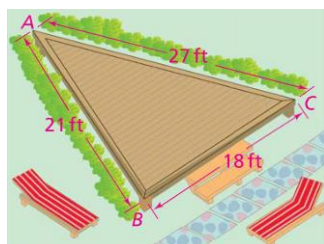


Part III: Problem-solving and critical thinking. (Diagrams are not drawn to scale.)

8. Triangles are used for strength in roof trusses. In the diagram shown at right, \overline{UV} and \overline{VW} are midsegments of $\triangle RST$. Find UV and RS.



9. List the sides of the triangle shown at left in order from shortest to longest.



10. List the angles of the triangle shown at left in order from largest to smallest.

Website List

[Khan Academy – Relationships within Triangles | Geometry](#)

Khan Academy offers practice exercises, instructional videos, and a personalized learning dashboard that empower learners to study at their own pace in and outside of the classroom. This website tackle math, science, computing, history, art history, economics, and more, including K-14 and test preparation (SAT, Praxis, LSAT) content.

[Systry – Relationships within Triangles](#)

Systry is a website that offers math resources for Algebra, Geometry, and Pre-Calculus

[Quizlet – Relationships Within Triangles Flashcards | Quizlet](#)

Quizlet is offer learning resources and assessments for all subject areas for K-12 education.

[CK-12 – Relationships with Triangles](#)

CK-12 provides open-source content and technology tools to help teachers provide learning for students in a global world.

[Big Ideas Math – Relationships Within Triangles](#)

Big Ideas Math, which is part of Big Ideas Learning, is a leading publisher of content-rich educational programs that provide a cohesive, coherent, and rigorous mathematics curriculum to empower teachers and support student learning from kindergarten through high school.