

Name _____

Triangle Tales: Exploring Shapes and Angles

Open-Ended Response Answer Key

1. Answers may vary but could include: An equilateral triangle is a triangle with three equal sides. It's like a perfectly balanced seesaw with each side carrying the same weight.
2. Answers may vary but could include: Knowing about acute, obtuse, and right triangles would be useful in construction when building structures with specific angle requirements, such as roofs or supports.
3. Understanding the properties of different types of triangles is important in geometry because it allows us to classify, analyze, and solve problems involving shapes and spatial relationships.
4. Triangles with different side lengths and angle measures contribute to the diversity of shapes in the world around us by forming the building blocks of various structures, patterns, and natural formations.

