



Christmas Tree Worksheet

Objective(s):

Students will be able to identify and compute missing angles while finding missing variables for angles in a triangle.

Indiana Academic Standards:

Mathematics: Grade 7

Geometry and Measurement

7.GM.1 Explore triangles with given conditions from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.

7.GM.2 Identify and describe similarity relationships of polygons including the angle-angle criterion for similar triangles, and solve problems involving similarity.

National Agricultural Literacy Outcomes

Plants and Animals for Food, Fiber & Energy Outcomes

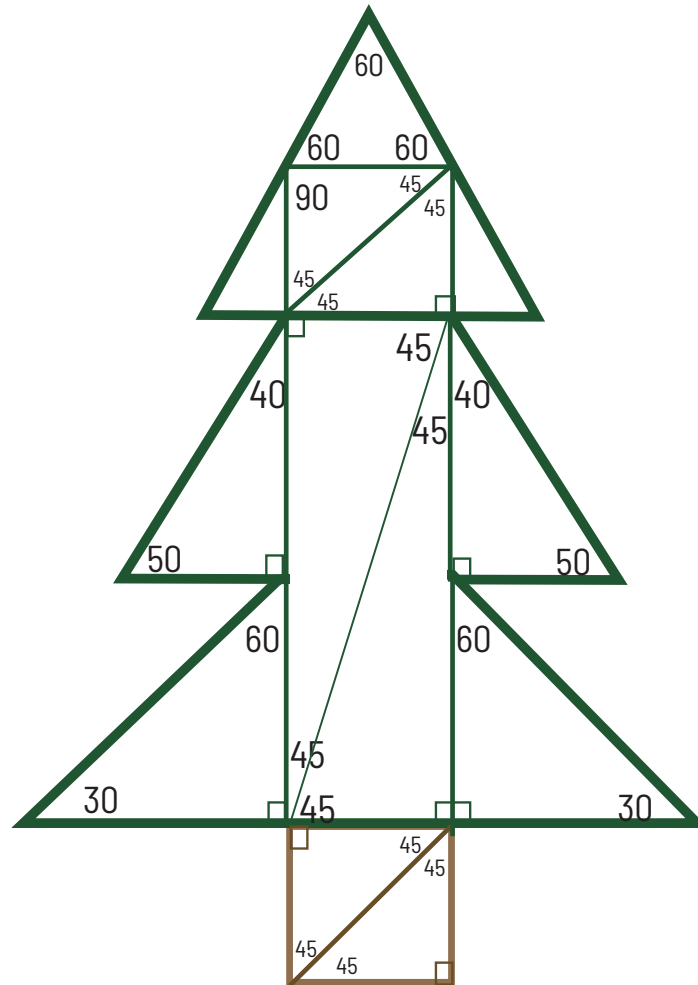
T2.6-8.c. Identify farm practices for plant protection and the harvest of safe products for consumers

Materials:

- Writing utensil
- Student worksheet



Teacher Answer Key



Supplemental Information

- Christmas trees are a year-round business.
- It can take as little as four years, or as many as 15 years, to grow a Christmas tree to a height of 6-7 feet. Seven years is the average growing time.
- Once the tree reaches the desired size, the farmer begins "shearing" the tree, which helps train the growth and the shape of the branches.
- There are about 15,000 Christmas tree farms across the U.S. Indiana's largest Christmas tree farm, Dull's Tree Farm, is located in Thorntown, Indiana.
- There are approximately 350 million Christmas Trees currently growing on tree farms across America.
- Americans use nearly 35 million Christmas trees annually.
- Christmas tree farmers contribute almost \$1.5 billion to the economy.
- **Careers:** Landscaper, horticulture technician, Christmas tree farm manager and conservation technician