

Name _____ Period _____ Date _____
Angles and Triangles Culminating Activity

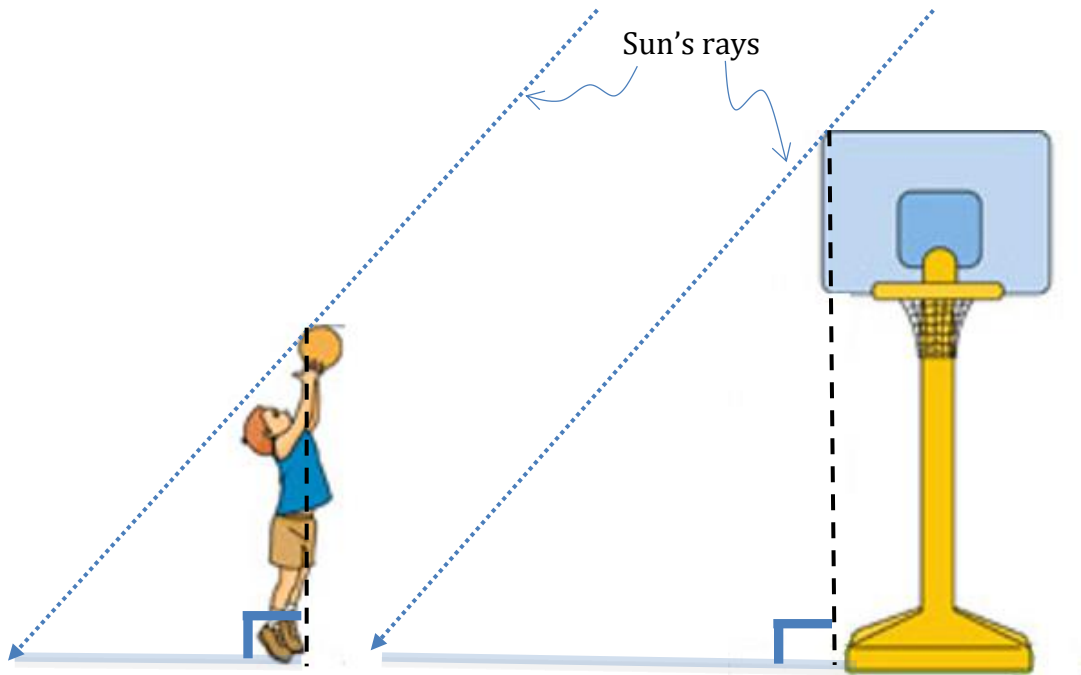


Image modified from classroomclipart.com. Not drawn to scale.

Directions:

Use the figure above to answer the questions. Use mathematical language in your explanations. You may label points, angles, and/or lines on the figure to make your explanations more clear.

1. The Sun's rays that are hitting the Earth are parallel to one another. Is the line defined by the ground a transversal? Why or why not?
2. The boy's shadow and the Sun's ray form one angle. The hoop's shadow and the other Sun's ray form another angle. What is the relationship between these two angles? How do you know?
3. Is the triangle formed by the boy, his shadow, and the Sun's ray similar to the triangle formed by the hoop, its shadow, and the Sun's ray? Why or why not?