Some Triangle Tasks

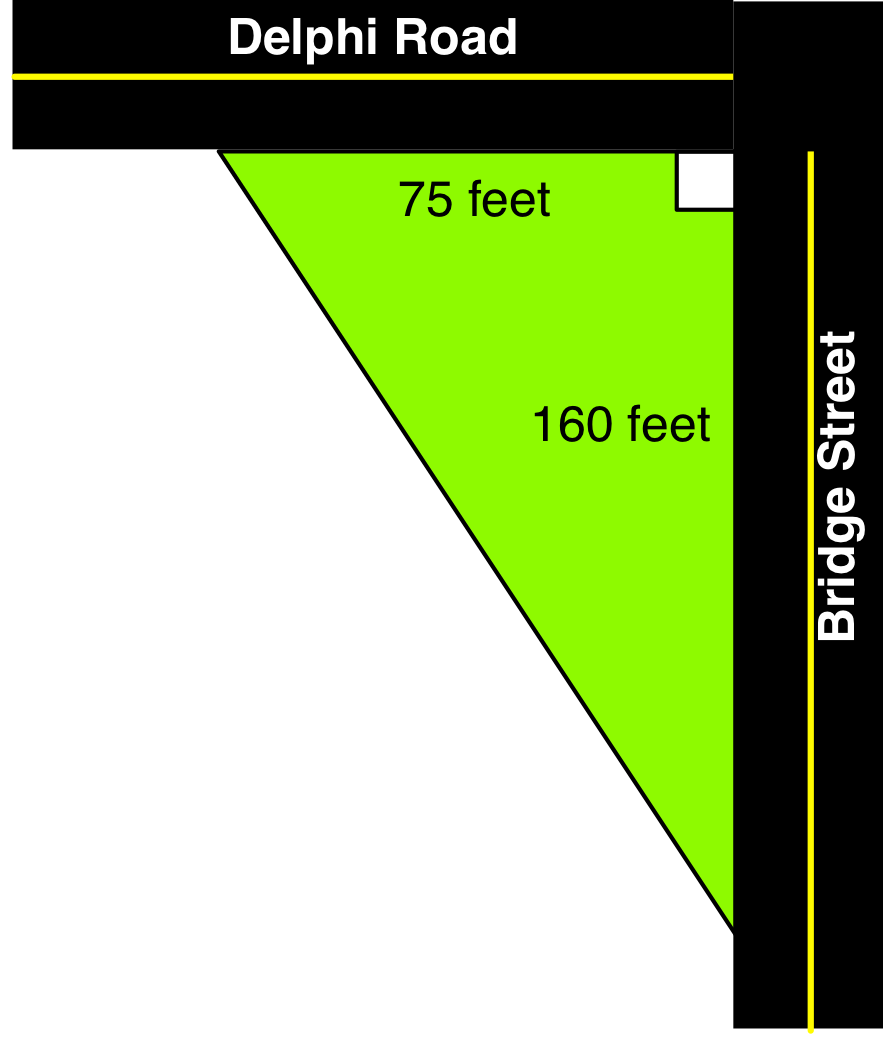
**Task A**

*(adapted from Connected Mathematics Project 2, Covering and Surrounding)*

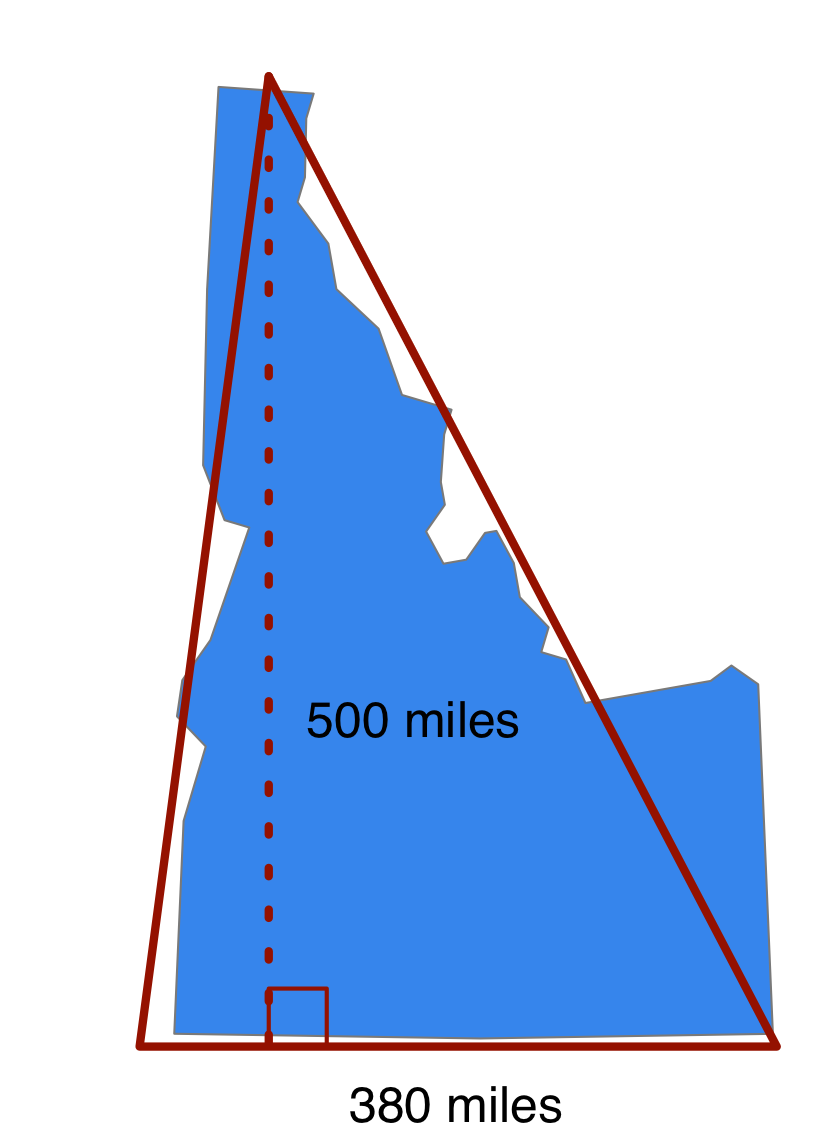
1. Cut out copies of each triangle. Position each triangle on centimeter grid paper.
   1. Label the base and height of each triangle.
   2. Find the area of each triangle. Explain how you found the area and show any calculations that you did.
2. Find a second way to place the triangle on the grid paper.
   1. Label the base and height of each triangle.
   2. Find the area of each triangle. Explain how you found the area and show any calculations that you did.
3. Did changing the orientation of the triangle change the area? Explain.

**Task B**

1. The City of Grandville is building a small park on some unused land at the corner of Delphi Road and Bridge Street. Using the diagram below, find the area of the park.



1. The state of Idaho is a roughly triangular shape with a base of 380 miles and a height of 500 miles. Find the approximate area of Idaho.



**Task C**

*(adapted from Connected Mathematics Project 2, Covering and Surrounding)*

On a grid, draw a segment that is 6 cm long. Use the segment as a base for each triangle described in Problem 1. Draw each triangle on a separate grid.

1. Using the 6cm segment as a base:
   1. sketch a right triangle with a height of 4 cm
   2. sketch a different right triangle with a height of 4 cm
   3. sketch an isosceles triangle with a height of 4 cm
   4. sketch a scalene triangle with a height of 4 cm
   5. Find the area of each triangle
2. What do these four triangles have in common?
3. Two triangles each have a base of 5 cm and a height of 6 cm. Do they have the same area? Explain how you know.
4. Two triangles each have an area of 15 square cm. Do they have the same perimeter? Explain how you know.

**Task D**

