Test 3 Applied Portion

Short Answer Questions

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1. Name the three different geoprocessing tools that you utilized, and why you selected those three.

I used a buffer, an intersection, a difference, and a symmetrical difference. I used to buffer to show both the one and two mile radiuses from each fire station. From here, I used a difference to show the radius that was greater than 1 mile from a fire station, and less than 2 miles. I used the intersection to indicate which incidents occurred within each radius. Finally I was able to use the symmetric difference tool to find the number of incidents that occurred outside of the 2 mile radius. I also used the dissolve tool to make the two-mile buffer slightly less busy.

1. How many fire incidents were located less than one mile away fire department locations?

7,562 incidents

1. How many fire incidents were located less than two miles away from fire department locations?

11,657 incidents

1. How many fire incidents were located greater than one mile away from current fire department locations, but less than two miles away?

4,059 incidents

1. How many fire incidents were located greater than two miles away?

522 incidents