



**GEOGRAPHY.
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8th Swiss Finals

12th November 2022

Fieldwork Exercise

The exercise book contains two different tasks in the same area. You are given 40 minutes for each task (80 minutes in total). The order of completion and the time spent on each task is irrelevant. In case of any questions, a guide will always be present at the starting point.



SWISSIMAGE Orthophoto Mosaic of Kreuzlingen; source: <https://map.geo.admin.ch>; retrieved 09th November 2022

Student name:

1) Exercise A: Demographic change [40', 10 points]

1.1 By 2050, a decrease in population as well as a generative development is expected. A clear shift in age groups in favor of the older population groups is predicted. With the generative development, the demand behavior will change as well.

On the map below (red area only), mark which services and stores that exist today could disappear by 2050 and provide reasons for your choices. Mark 3 services and/or stores in the map and use the table below for further information (4 Points).

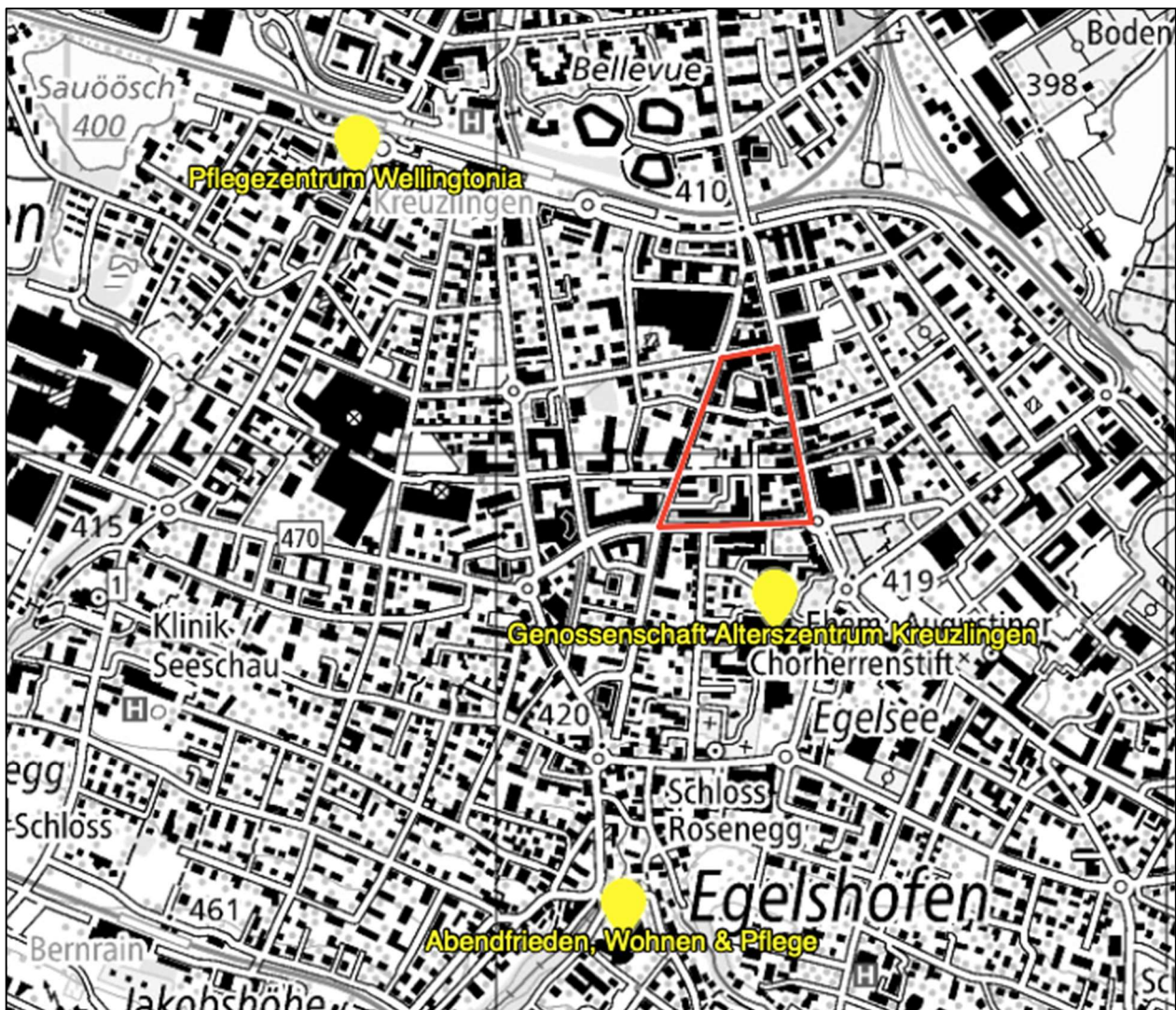
1.2 What types of services or stores could open or increase in the area instead by 2050? Name 2 different types and explain your choice on the next page (2 Points).



1.1 - Service/store	Explanation/Information

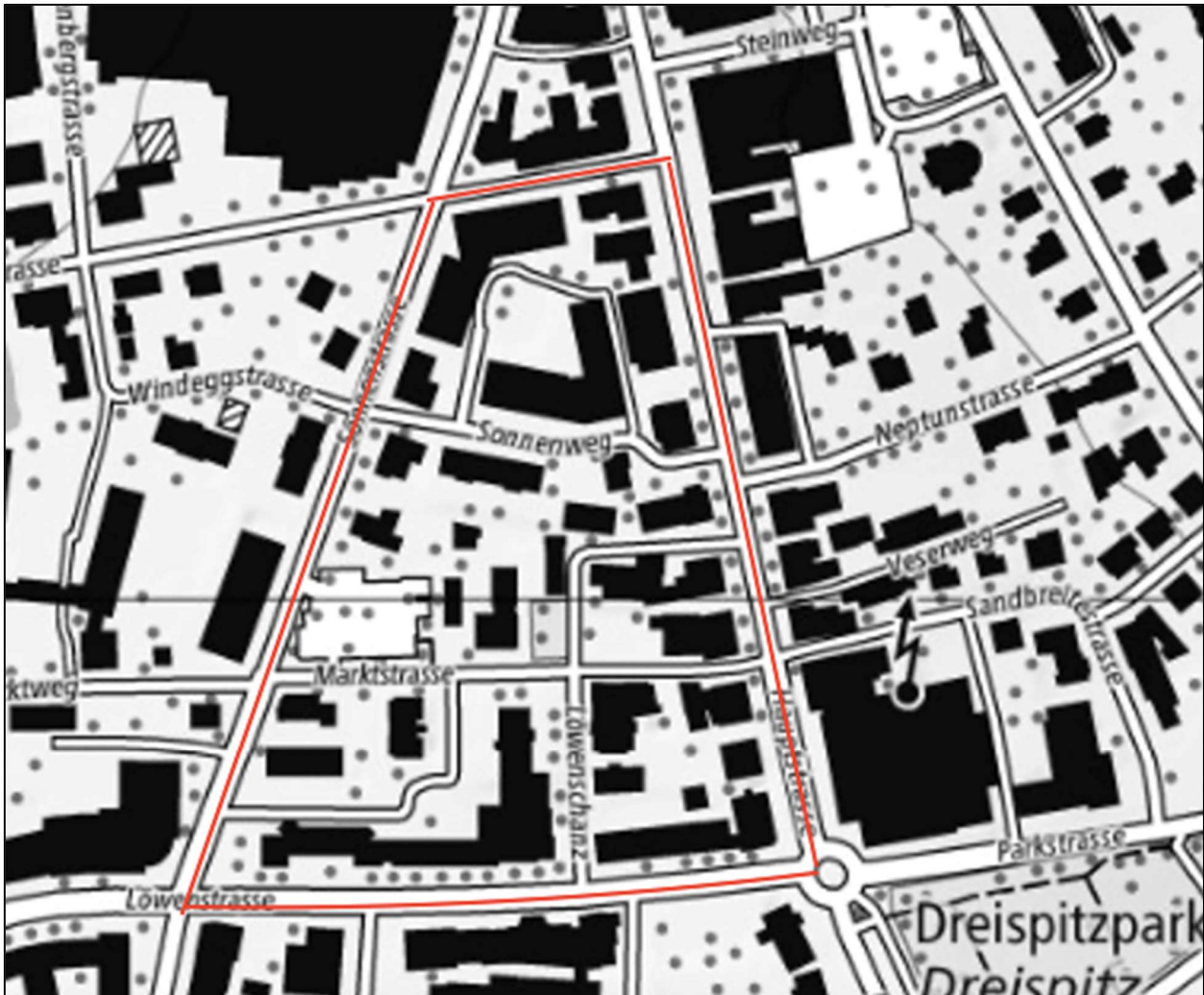
Answer exercise 1.2

- 1.3 There are currently two rest homes and one retirement center with apartments for the elderly in Kreuzlingen (see yellow dots). Which location in the red area (same as in exercise 1.1/1.2) is most suitable for additional apartments for the elderly? Mark your possible location on the map and give reasons for your choice of location on the following page (4 Points).



Answer exercise 1.3

2) Exercise B: Urban heat island [40', 10 points]



2.1 What kind of heat-reducing elements can you identify in the red area? Identify 3 different elements, draw them on the map and provide a legend (3 Points).

Legend exercise 2.1

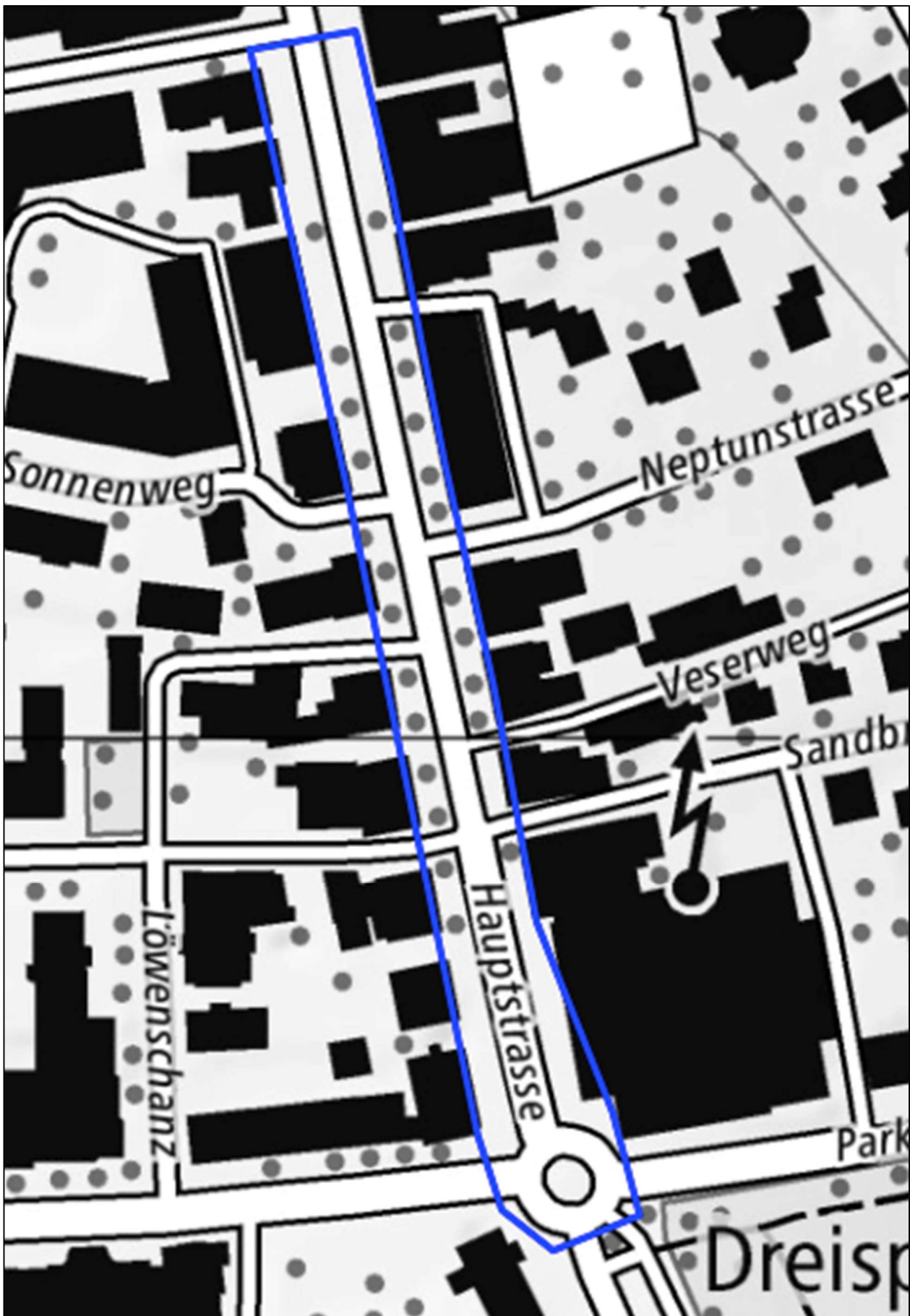
2.2 *"By preserving and promoting urban green areas, a positive impact can be achieved against the threat of overheating in the city."* (City of Kreuzlingen, 2019). According to the building regulations of 2019, the city of Kreuzlingen stipulates that the green area ratio must be

- in the residential zones min. 0.30,
- in the residential and work zones min. 0.20,
- in the industrial zones min. 0.10 and
- in the structural preservation zones min. 0.50

(Art. 5 and Art. 23). To which zone does the red area belong in your opinion? Does the red area meet the required green space ratio? Provide evidence for your answer (3 Points).

Answer exercise 2.2

2.3 The city administration gives you the task of redesigning the boulevard (blue area) as a place with an increased quality of stay. Plan at least three additional heat-reducing elements and draw them on the map below and provide a legend (4 Points).



Legend heat-reducing elements