EXERCISES ON HECTOMETRES AND HECTARES

BY

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Tolentino Tuition, Grade 7 Mathematics

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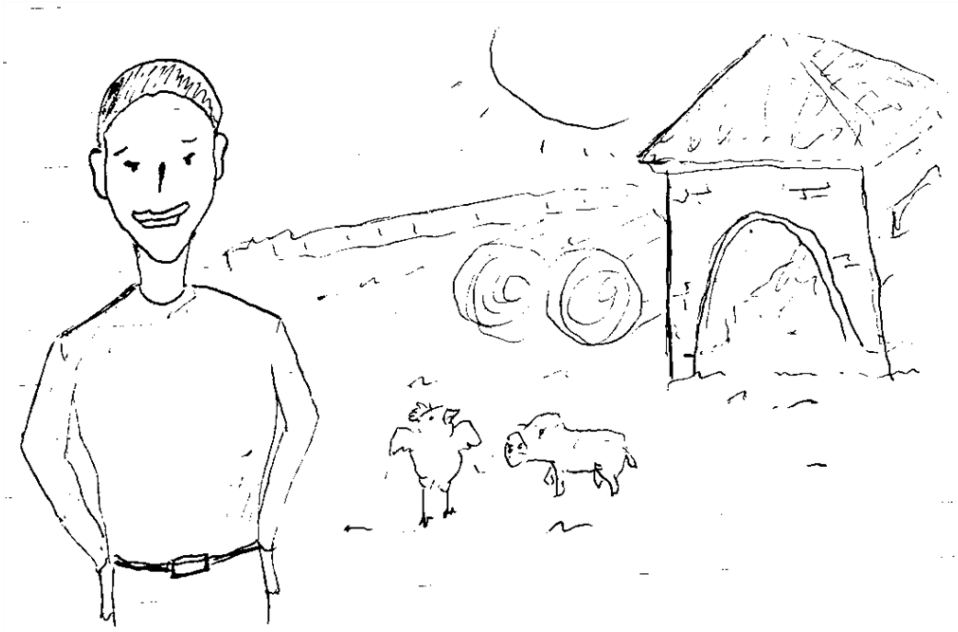
EXERCISE 1

Regina travels to Gawler, South Australia. She is shopping around for a plot of land upon which she plans to set up a farm for herself and her family to live on.



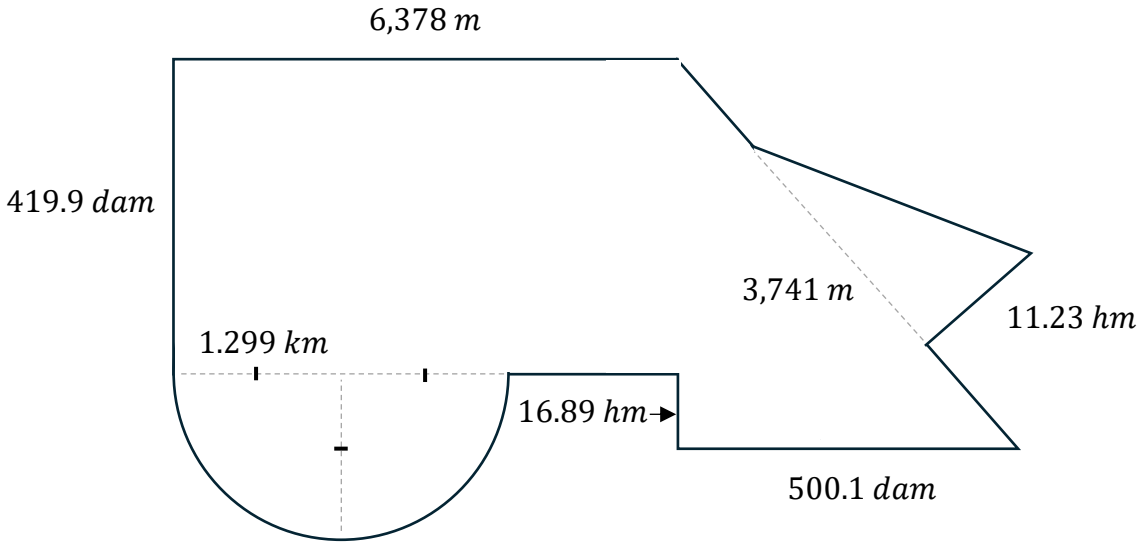
After some internet research, Regina finds a 2015-2016 census by the Australian Bureau of Statistics ('ABS') stating that the average farm area in Australia is 4,331 *ha*.

1. Do the units *ha* and *hm* represent the same quantities? Why or why not?

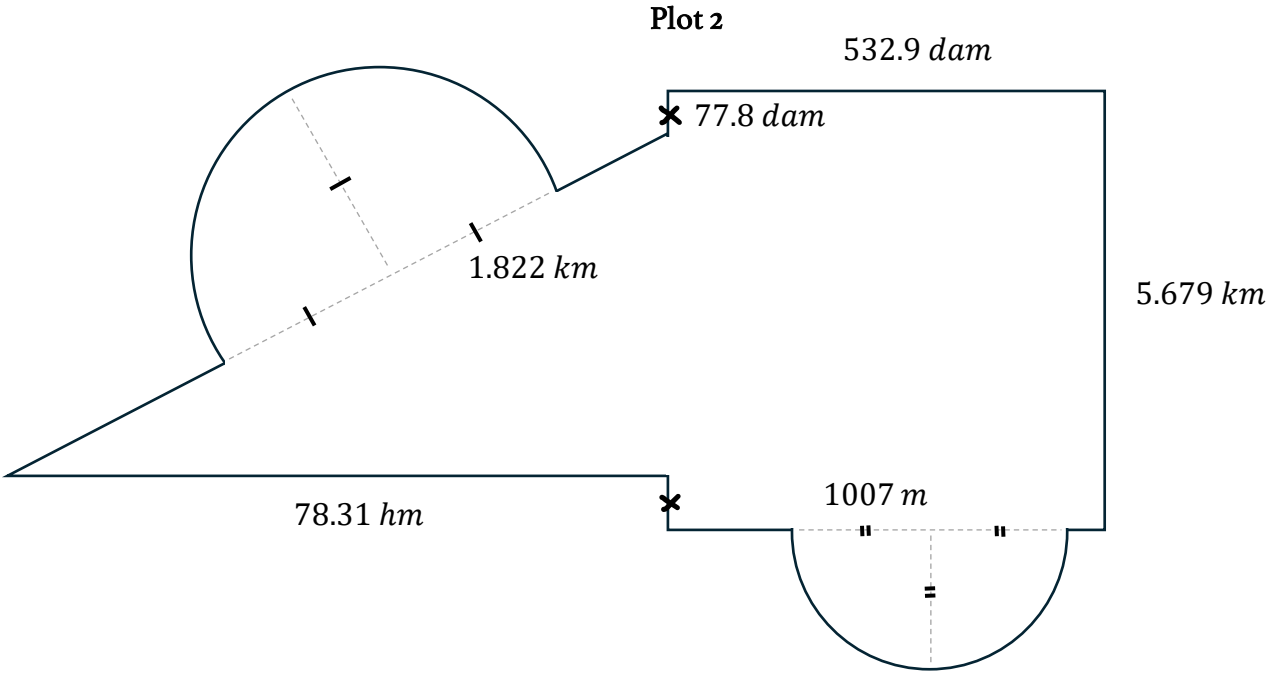
2. Regina's favourite number is 13.7. So, she decides that she will only purchase a plot of land for her new farm if the area of said plot of land is 13.7% larger than the average Australian farm area (according to the 2015-2016 ABS census) at the minimum.

   Regina is currently considering which of the following two plots of land in Gawler to purchase.

Plot 1



Plot 2



A. Which plot of land will likely be more attractive to Regina? Why?

B. What is the difference in area of land in *square decameters* between Plot 1 and Plot 2?

C. ***Challenge***

Regina has a budget of $4,100,000 to spend on a plot of land.

Before driving out to Gawler, Regina read online that the median price per *ha* of farmland in Gawler in 2025 was $9,214.

Are either, both, or neither of the two plots likely within her budget? Based on your answer to this question, would you change your answer to A?