

MATHECRAFT

WELCOME TO NEW FRANCE

In accord with our agreement, you may now begin to build on the land that I have leased to you.

1) Find a plot of land along the St. Lawrence and create a fence around it that has a perimeter of 20m by 100m.

Note: Create a label on the fence with its dimensions and its total perimeter.

2) Closest to the river, build a house on your lot.

Note: On the front of the house, create a label that states the perimeter of the house and the volume.

3) Create three different gardens, all with an area of 12 m^2 that all have different dimensions. Plant flowers in each of these gardens.

Note: On each gate, create labels that state the perimeter and area for each garden.

4) Using exactly 100 m^2 , create 4 paddocks which would house sheep, cows, pigs, chickens. You decided the dimensions for each of these.

Note: On each paddock, create labels that state the perimeter and area for each garden.

5) Create field for crops that is 10m by 30m. You may plant what ever you wish, but they must be in the shape of a rectangle. On a label, state the area and perimeter for each type of crop and be prepared to justify how you divided up your crops.

6) Now, find the area of the land that is not being used. Create a sign on the front lawn that indicates what the total area of your land is and how much land that you have left with nothing on it.

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Guided Questions:

For step 3 explain the strategy you used to create three different size gardens.

How do you know that each garden was $12m^2$?

Using graph paper, create a labelled diagram of your piece land and all of the components that you added. Then show how you figured out the area and the perimeter for both.

