

Build a Farm with Code by Solving the Math.

Using math and code concepts we will build a farm. The farm will have an area for vegetables and animals. You need to employ your agent to build the following things **using code**.

You will submit your code file and Minecraft file when you complete your work. Use the pen & quill to submit the answers to the question asked in each question.

1. **Farm Shed:** Total area of the rectangular bldg. should not exceed 200 square blocks. It should be:

- a. 4 blocks tall
- b. 1 door (anywhere)
- c. 2 glass blocks that act like windows anywhere.

What is the length and width of the bldg. you have built?

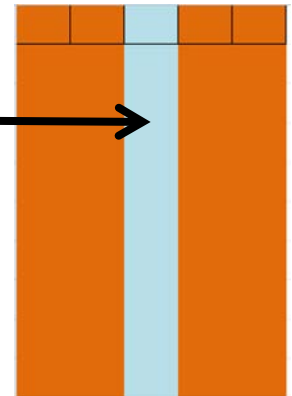
Photograph the farm shed and provide the answer in your journal under the photo.

2. **Carrot planting area:** The rectangular planting area for the carrot patch should

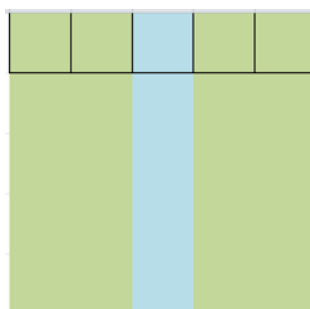
2. **Carrot Planting Area:** The rectangular planting area for the carrot should have width of 5 feet. And, be 2 times as long as it is wide.

There should be 1 row of water in between like the image shows.

What is the perimeter of the carrot patch? Photograph the carrot patch and provide the answer in your journal under the photo.

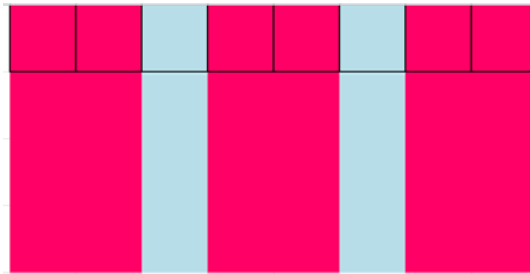


3. **Potatoes planting area:** It is a square and has a perimeter of 25 blocks. "Til" and plant potatoes seeds to show your answer. What is the area of the potatoes patch? Photograph the potato patch and provide the answer in your journal under the photo.



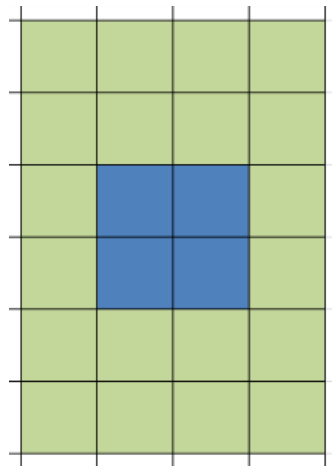
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4. **Beetroot planting area:** The length of a rectangle is 4 blocks. The width is 7 blocks. What is the area of the rectangle? Build the beetroot patch. Photograph the beetroot patch and provide the answer in your journal under the photo.



5. **Corral for Cows:** The area of a rectangle is 5 blocks. The length is 7 blocks. Build the corral with code. What is the area and perimeter of the corral? Build the corral with fence material. Photograph the cow corral and provide the answer in your journal under the photo.

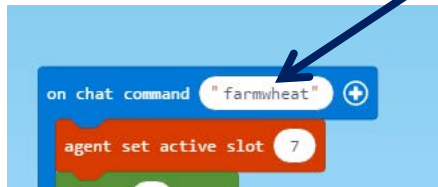
6. **Corral for Sheep:** See the image below to build the corral for the sheep. The corral has a water element inside the corral. Build the corral with fence material. What is the area of the corral, not calculating the water element? Photograph the sheep corral and provide the answer in your journal under the photo.



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Things to Remember:

1. To make the agent place an item, the item **MUST** be in the **inventory** of the agent's. And, you **MUST** **set the active slot** with the item.



2. Lost your Agent?



3. Save your code file and submit for a grade.

