

Name:

Class:

Date:

Activity 6.1A: Design a Structure Worksheet

Instructions

Follow the prompts to create the plans for a small agricultural structure.

Basics of Your Structure

1. What type of agricultural structure are you going to build? Some ideas for small structures include greenhouses, sheds, doghouses, and chicken coops.

Answer:

2. Will you need permits?

Answer:

3. What types of utilities will your structure require (i.e., propane, natural gas, electricity)? Will you need plumbing and a water source?

Answer:

4. What type of foundation will your structure need (i.e., concrete, dirt, cinder block, gravel)?

Answer:

5. What will you use to cover the exterior (walls and roof) of your structure? Will the roof and walls have more than one layer?

Answer:

Create Your Drawing

Create a drawing of your structure with views from the front, back, and sides. If both sides are the same, you only need to draw one side. The drawing does not need to be to scale; however, it must include all dimensions.

Front and Back Views

Side View(s)

Create a Building Materials List

Using the dimensions from your drawings, make a list of all the materials you would need to build the structure. Remember that boards only come in certain lengths and widths, and you cannot purchase only a portion of a board. Using your materials list and an internet search or trip to a building supply store, calculate the cost of materials for your project.

1. Flooring materials

Answer:

Cost

Answer:

2. Framing materials

Answer:

Cost

Answer:

3. Sheeting materials (used to cover the roof and the walls)

Answer:

Cost

Answer:

4. Fasteners (screws, nails, etc.)

Answer:

Cost

Answer:

5. Additional materials (lights, wiring, plumbing supplies, latches, hinges, windows, cement, paint, etc.)

Answer:

Cost

Answer:

6. Additional expenses (i.e., permit fee)

Answer:

Cost

Answer:

7. Total Cost

Answer: