Prepared for: Cementing Integration Project – QUILL Learning Network 2015

Task-based Activity Cover Sheet

Task Title: Create a Scale Drawing for a Shed

Learner Name:	
Date Started:	**Date Completed:**
Successful Completion: Yes___ No___	
Goal Path: Employment✓ Apprenticeship✓ Secondary School___ Post Secondary ___ Independence	
Task Description: Create a scale drawing using measurements for correct placement of material for a garden shed.	
Competency: C: Understand and Use Numbers	**Task Group(s):** C3: Use measures
Level Indicators: C3.3:- Use measures to make multi-step calculations; use specialized measuring tools	
Performance Descriptors: see chart or click here	
Skill Building Activities: see the last page or click here	
Materials Required: • Pen and/or pencil • $8\frac{1}{2}$ x 11 grid paper • Ruler	
ESKARGO: **Skills and Knowledge Required for Successful Task Performance** **The learner:** • Calculates using numbers expressed as whole numbers, fractions, decimals, • percentages, and integers • Manages unfamiliar elements (context, content) to complete tasks • Chooses and performs required operations; makes inferences to identify required operations • Selects appropriate steps to solutions from among options • Identifies a variety of ways to complete tasks • Interprets, represents, and converts measures using whole numbers, decimals, percentages, ratios, and fractions • Organizes and displays numerical information (e.g., graphs, tables) • Uses strategies to check accuracy (e.g., estimating, using a calculator, repeating a calculation, using the reverse operation)	

Attitudes:

Practitioner,

We encourage you to talk with the learner about attitudes required to complete this task set. The context of the task has to be considered when identifying attitudes. With your learner, please check one of the following:

□ Attitude is not important □ Attitude is somewhat important □ Attitude is very important

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Learner Information and Tasks:

In the landscaping industry many contractors build sheds of all types using scale drawings. Homeowners may do this as well.

The scale will be 4 grid paper squares to 1′ .

Task 1: Create a scale drawing of the front of a garden shed. The shed measurements are:

- 6′ W x 8 ½ ′ H (to the peak)
- Walls are 7′ H
- Roof overhang is 6″
- 2 panel door in front is 4′ W x 5 ½ ′ H

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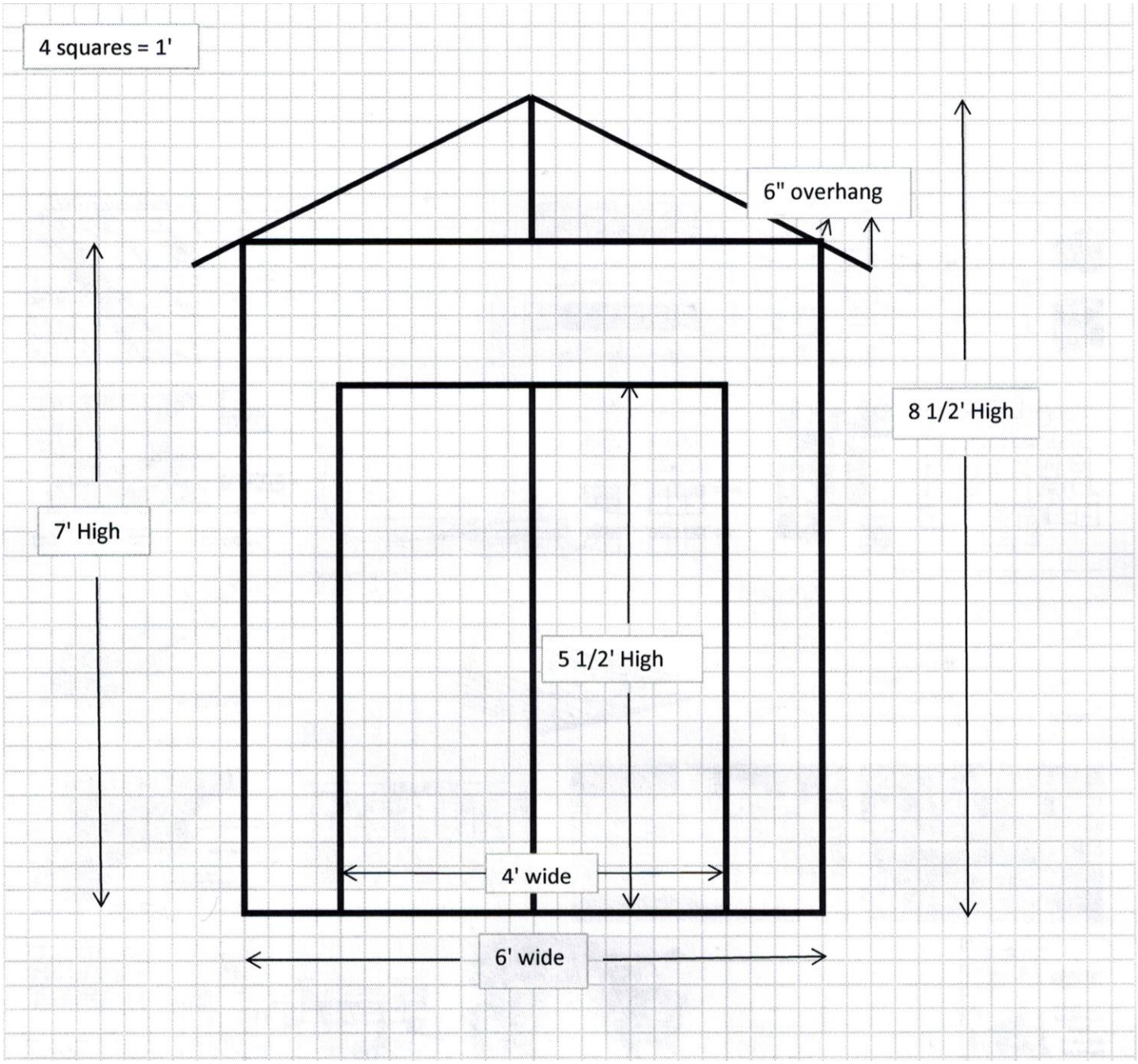
Answer Key - This is an example of how the finished Scale Drawing should look without labels



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	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
C3.3	• calculates using numbers expressed as whole numbers, fractions, decimals, percentages and integers			
	• manages unfamiliar elements (e.g. context, content) to complete tasks			
	• chooses and performs required operations; makes inferences to identify required operations			
	• selects appropriate steps to solutions from among options			
	• interprets, represents and converts measures using whole numbers, decimals, percentages, ratios and fractions			
	• uses strategies to check accuracy (e.g. estimating, using a calculator, repeating a calculation, using the reverse operation)			

This task: was successfully completed___ needs to be tried again___

Learner Comments

_____ _____

Instructor (print) Learner Signature

Skill Building Activities

Links to online resources:

https://www.khanacademy.org/math/basic-geo/basic-geo-area-perimeter/basic-geo-scale-drawings/v/scale-drawings-example
Khan Academy (4.25 min) Interpreting a scale drawing

https://www.khanacademy.org/math/basic-geo/basic-geo-area-perimeter/basic-geo-scale-drawings/v/scale-drawing-example-2
Khan Academy (5.50 min) Solve a scale drawing word problem

https://www.khanacademy.org/math/basic-geo/basic-geo-area-perimeter/basic-geo-scale-drawings/v/constructing-scale-drawings
Khan Academy (3 min) How to make a scale drawing

https://www.khanacademy.org/math/basic-geo/basic-geo-area-perimeter/basic-geo-scale-drawings/e/constructing-scale-drawings
Khan Academy – practice question - **Create a scale drawing using any scale of your choice.**

https://www.youtube.com/watch?v=PgsSvBYAMJA
(12 min) How to do simple scale drawings. Shows the basics of making a site drawing using an architect's scale, or a ruler and a calculator. Included is some basic information about one-to-one drawings and what is a scale?

LearningHUB online courses available:

- **Math, Independent Study (Assigned by practitioner after assessment)** :
  - Fractions Asg #1 & #2
  - Data Analysis Asg
  - Measurement Asg
  - Geometry Plane Figures Asg #1

- **Independent Study Short Courses (Moodle)**
  - Apprenticeship Math

- **Live Classes (SABA)**
  - Decimals B; Fractions in Every Day Life 1 & 2; Geometry B Part 1

***To access LearningHUB courses**, learners must register for the LearningHUB e-Channel program by completing the registration form on their website and completing the course selection (page 2 of the registration form): https://www.learninghub.ca/get_registered.aspx

***To Access LearningHUB Course Catalogue:**
http://www.learninghub.ca/Files/PDF-files/HUBcoursecatalogue,%20December%2023,%202014%20revision.pdf