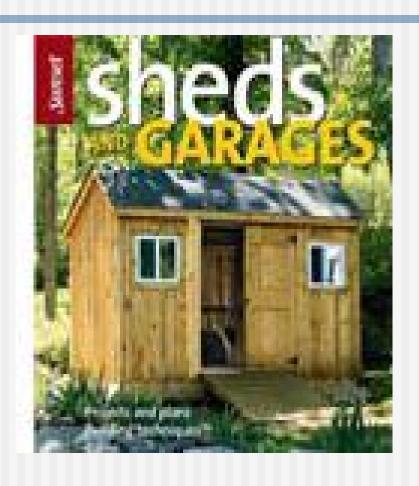
Assessing Spatial Reasoning-by Building a Storage Shed

Math 304 Summer 2011

Part I - Shed Research

- 1.a. Turn in 3 pictures/sketches of sheds. You may take one of these from an advertisement, the other two are to be actual sheds you have photographed or sketched.
- b. Write a description of each shed listing dimensions of the photo. For those photographed/sketched list and the actual dimensions. Include the pitch of the roof and door size for each shed.

Shed Search



1.a. Find at least 3 different sheds and include their photo or sketch. Only 1 of these should be a photo out of an advertisement or off the internet, the others can be photos or sketches of actual sheds.

Shed Search Description

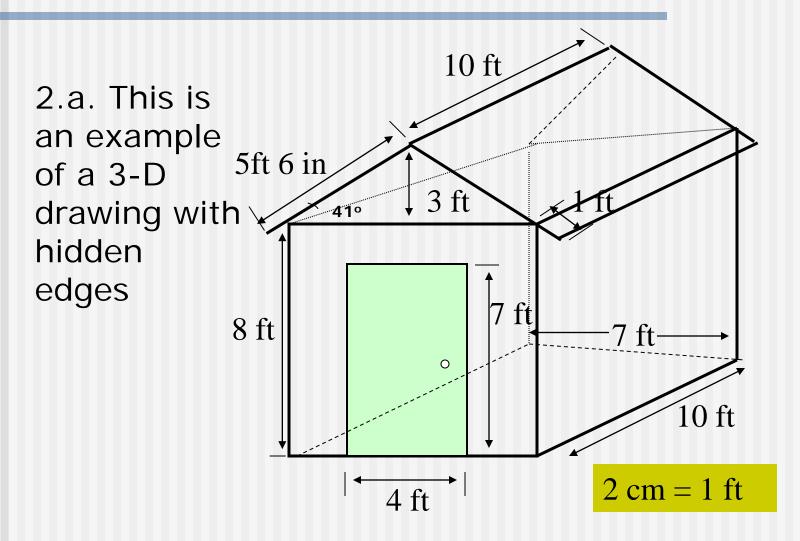
An Example of #1.b. taken from an advertisement

This shed had a rectangular shaped front face that is 6.4 cm wide a height of 6 cm to the peak from the ground with a pitch of 41°. The door is 1.8 cm wide and 4 cm tall. This shed's left and right faces are pentagonal in shape that are 4 cm wide and a pair of windows on the front that give it character through symmetry.

Part II- Drawings and Model

- 2. Make Four drawings of your own sloped roof shed:
 - a. 3-D drawing with hidden edges
 - b. a side view
 - c. a top view
 - d. a front view
- 3. Label the actual shed's <u>dimensions</u>, <u>pitch</u>, and used <u>scale</u> on each of the your drawings.

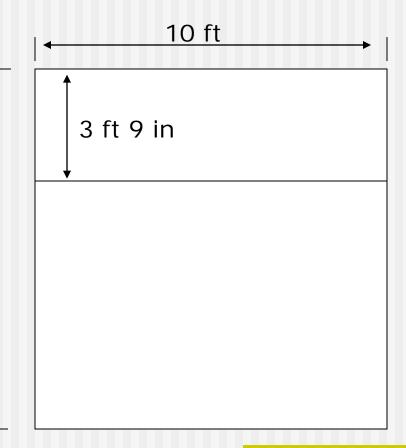
Your Design of a Storage Shed



Perspective Drawings

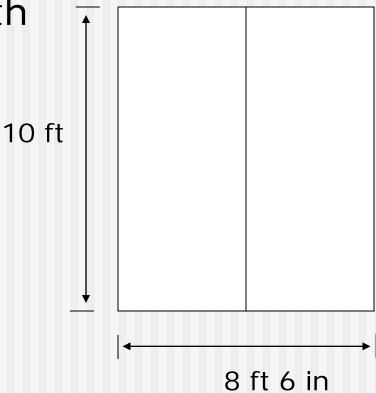
11 ft

 2.b. Side view with dimensions and scale included



Perspective Drawings

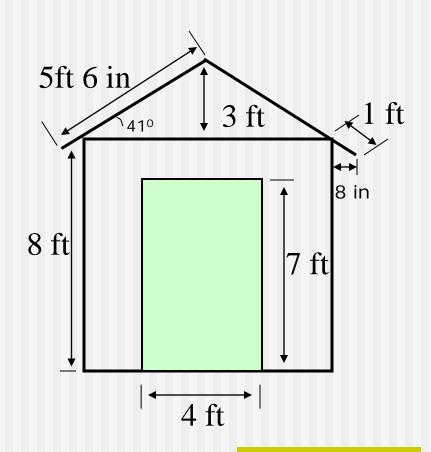
 2.c Top View with dimensions and scale included



2 cm = 1 ft

Perspective Drawings

 2.d. Front view with angle measurement and dimensions included



2 cm = 1 ft

4. Model of your Shed

- It is recommended you construct your model from cardstock paper or thin foam.
- Your shed should include doors that open.
- It is up to you if you would like to include a bottom to your shed.
- Take a look at a few models and pictures around the room to get some ideas.

Suggestions for Part II

- If you are creating a shed with an overhang include the length of the of the overhang.
- Be Creative
- For # 5 your one page summary should include a paragraph on similarity. Your summary should also include a paragraph on parts of your model that are congruent to the actual shed.