

Lesson 4 - Handout #1
Answer Key
Constructing Huts

1. Brainstorm and list the items that you feel would be necessary to build a Revolutionary War hut.

1. Logs
2. Hand Saw
3. Rocks/Pebbles
4. Mud
5. Clay
6. Hand Drill
7. Straw or Hay

*Students may brainstorm additional items.

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2. Brainstorm and list features that would be common to all Revolutionary War huts.

1. Fireplace
2. Bunks
3. Roof
4. Chimney
5. Door

3. Using the specifications given to you by your teacher please answer the following questions:

A. Note the dimensions of each hut. Each log was approximately 9" in diameter.

- Length = 14'
- Width = 16'
- Height = 12'

*Note:

1. When the height reached 6 ½ feet, logs were extended by 1' on each side. Then, the eave logs tapered in length to reach the maximum height.
2. Each log was cut to the length necessary for each side. Example 14' x 9".

B. Approximately how much lumber would Washington's army have needed to build the total number of huts? You may also choose to draw a sketch to help you.

1. Approximately 25-30 logs per hut.
 - a. Note that chink/mud was used in between the logs to act as mortar.
 - b. If you would like an extension, you can also have your students figure out the area of the roof. They can also calculate the number of 4' x 2' wood slabs (used as shingles) that would have been used to cover the roof.
 - i. $14' \times 16' \times 2(\text{sides}) = 448$ square foot