
WOODWORKING AND CARPENTRY

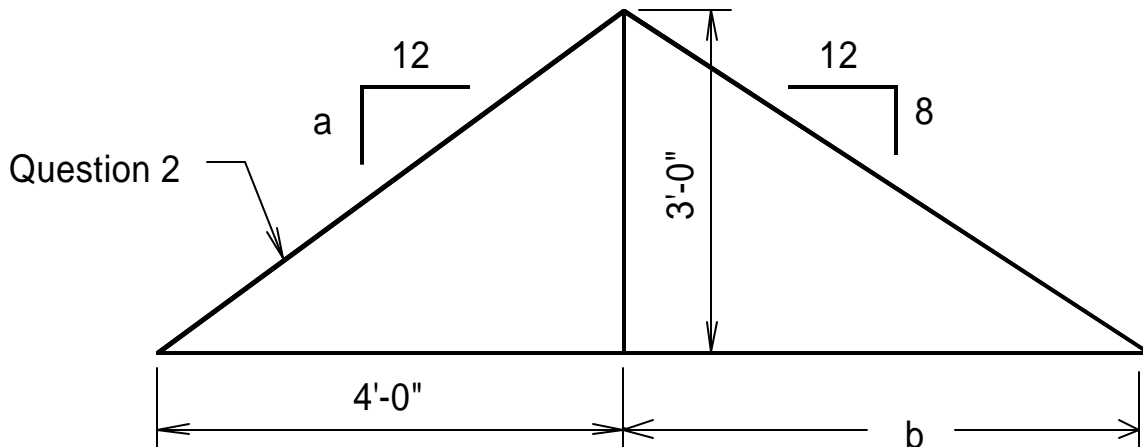
Materials Needed:

Rafter Framing Square
2x4x8 Board

Directions :

1. Secure materials and find a workstation.
2. Examine the rafter diagram

Rafter Layout Diagram



1. Calculate letters a. and b. on the diagram.

a:

b:

2. Lay out the angles and mark where to cut on the board represented by a dotted line on the diagram. Assume the roof has NO overhang.

Board Feet Problem

3. Examine the board labeled B. Use the tape measure provided to determine the board feet for this board.

Answer _____

Lumber Tool ID

4. _____

5. _____

6. _____

7. _____

8. _____

Complete questions 9-13 using the Midwest Plan No. 72364

9. Identify and circle the letter of the board that is cut correctly for the calf barn's knee brace.

A. B. C. D.

10. What is the preferred material to use for the 2"x 6" wall girts?

11. What size PVC pipe should be used for the drain if it is on a 1% slope?

_____"

12. Why should all plywood edges in the manger be painted?

13. What are the dimensions of the two trackboards above the two sliding doors?

_____ "x _____ "x _____' & _____ "x _____ "x _____'

Woodworking and Carpentry Scoring

	<u>Possible</u>	<u>Earned</u>
Problem 1	6	_____
Correct Angle 1 (5 pts)	5	_____
Correct Angle 2 (5 pts)	5	_____
Correct Length (5 pts)	5	_____
Board Feet Problem	5	_____
Lumber Tool Id	10	_____
Midwest Plan (2pts each)	10	_____
Safety (5 pts)	4	_____
Total	(50 pts)	_____