

Creating a Bill of Materials

CON1120

The purpose of a Bill of Materials is to create a cost estimate of the project you plan to build. It may be used for your personal project you plan to build or as a starting point for a cost estimate for a client. You will always need to start with a good set of plans first that include a cut list.

To complete this assignment, fill out the following worksheet using the “walnut end table plans” as the project plans. Follow these simple steps:

1. Copy the parts from the cut list of the project you are using which includes parts, #pieces, thickness, width and length
2. Decide on the material you will use. For this assignment you can use walnut
3. Use the formula for solid stock (found above the table) to calculate the board per linear feet. Please round up to the nearest 0.00
4. Multiply the board feet by the cost per foot to find the actual cost of your parts.
5. Remember the cost is in dollars (\$) and should be rounded up to the nearest 0.00

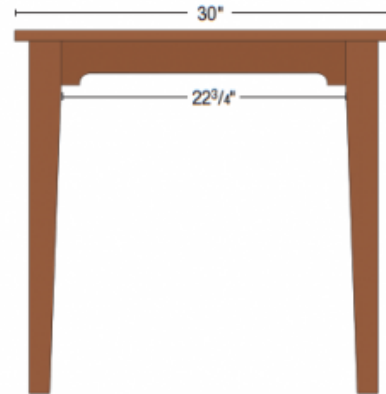
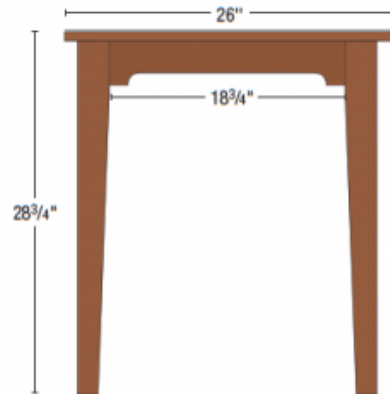
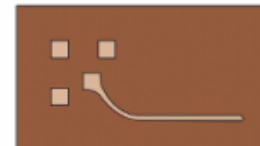
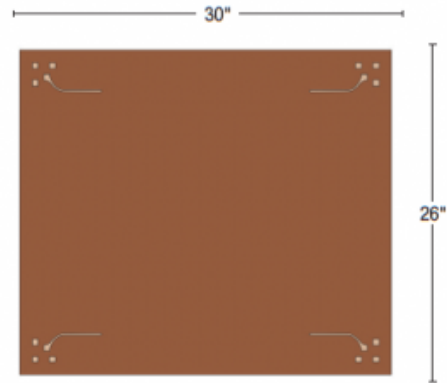
$$Bd/lin. ft = \frac{\#pieces \times T \times W \times L}{144}$$

Bill of Materials

Part Name	# pieces	T	W	L	Material	BD/Lin Feet	Cost/ft	Cost	
Legs					Walnut		\$9		
Long Aprons					Walnut		\$9		
Short Aprons					Walnut		\$9		
Tabletop					Walnut		\$9		
Inlay					Maple		\$9		
							A	<i>Total:</i>	

B	Construction Costs	5% of total cost	
C	Finishing Costs	5% of total cost	
D	Final Cost Estimate	(Add Column A, B, & C together)	

Weekend Walnut Table



Cut List

No.	Item	Dimensions (inches)			Material
		T	W	L	
4	Legs	2 1/2	2 1/2	28	Walnut
2	Long aprons	1	3 1/2	25 1/4*	Walnut
2	Short aprons	3	3 1/2	21 1/4*	Walnut
1	Tabletop	3/4	26	30	Walnut
1	Inlay material	3/4	12	24	Maple

* The long aprons are 22 3/4" from shoulder to shoulder. The short aprons are 18 3/4" shoulder to shoulder.

Supplies List

No.	Item
12	Figure 8 fasteners; solid 12 gauge steel variety
12	#6 x 1/2" screws to attach tabletop
12	#6 x 3/4" screws to attach figure 8 fasteners to aprons
1	Threaded leg leveler set, 1" diameter
1	Inlay Bushing and Bit; Purchase item no. 27593 from Rockler (rockler.com) or item no. 9500 from Whiteside Machine Company (whitesiderouterbits.com)
1	Rockler Pattern Flush Trim Router Bits (3/4" D x 1 1/4" H x 1/2" shank); item no. 21046