

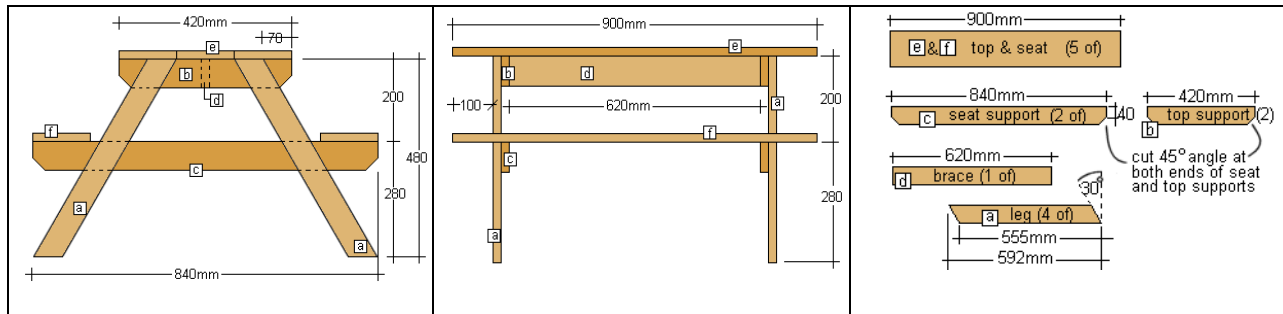
Production Options

As a relatively new carpenter you have decided to choose one of two options for a product to build for your summer business. Please remember you must choose to build only ONE of the two projects. After reviewing the bill of materials for each product, as well as the equipment needed you will need to fill out the final form in this document to explain your choice in products.

Please note that you will have to buy all new equipment for this assignment, (ie. you can't save money by using dad's saw ☺)

Option 1: A children's picnic table

Description: Smaller than an adult picnic table, designed for children's heights.



Bill of materials

Item	Description	Nominal Material Size	Length	Quantity	Cost per 8' length
A	Legs	1 x 3	24"	4	\$1.47
B	Top cross member	1 x 3	16 1/2"	2	\$1.47
C	seat support cross member	1 x 3	33"	2	\$1.47
D	brace	1 x 3	24 1/2"	1	\$1.47
E	Table top boards	1 x 6	35 1/2"	3	\$8.14
F	Seat Boards	1 x 6	35 1/2"	2	\$8.14

Equipment list

(all purchases will be estimated using the website <http://www.homedepot.ca/catalog/tools/172081>)

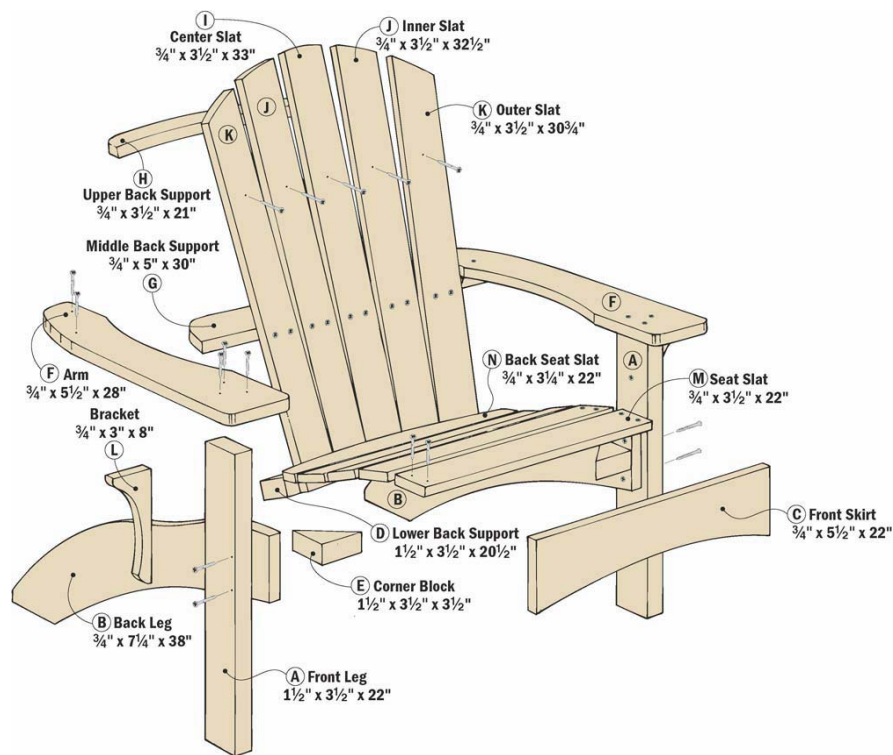
Description

7 1/4" 15 amp Circular Saw
 10" Sliding double bevel compound miter saw
 Jig saw variable speed
 Jig saw blades asst. pkg.
 electric drill h/d 3/8" vsr pistol grip keyless chuck
 Cordless drill 3/8 12 volt compact ratcheting chuck
 #2 robertson 3 1/2" driver bit (2)

drill bit 1/8" (6)
 3x21 variable speed belt sander
 3"x 21" 220 grit belts (3)
 24" bar clamps (4)
 12" combination square
 #2 robertson screw driver
 3/4" x 16' tape measure

Option 2: An Adirondack Chair

Description: Full sized adult chair often seen at beaches or cottages



Bill of materials

CHAIR:	Total inches req.	Nominal Lumber	Cost /8' length
B (2) Back Legs $\frac{3}{4}'' \times 71\frac{1}{4}'' \times 38''$	76"(L x quant.)	1x8	\$10.12
total length	76"		
A (2) Front Legs $1\frac{1}{2}'' \times 31\frac{1}{2}'' \times 22''$	44"	2x4	\$2.15
D (1) Lower Back Support $1\frac{1}{2}'' \times 31\frac{1}{2}'' \times 20\frac{1}{2}''$	20 1/2"	2x4	\$2.15
E (2) Corner Blocks $1\frac{1}{2}'' \times 31\frac{1}{2}'' \times 31\frac{1}{2}''$	7"	2x4	\$2.15
total length	71 1/2"		
C (1) Front Skirt $\frac{3}{4}'' \times 51\frac{1}{2}'' \times 22''$	22"	1x6	\$8.14
F (2) Arms $\frac{3}{4}'' \times 51\frac{1}{2}'' \times 28''$	56"	1x6	\$8.14
G (1) Middle Back Support $\frac{3}{4}'' \times 5'' \times 30''$	60"	1x6	\$8.14
total length	138"		
H (1) Upper Back Support $\frac{3}{4}'' \times 31\frac{1}{2}'' \times 21''$	21"	1x4	\$1.97
I (1) Center Slat $\frac{3}{4}'' \times 31\frac{1}{2}'' \times 33''$	33"	1x4	\$1.97
J (2) Inner Slats $\frac{3}{4}'' \times 31\frac{1}{2}'' \times 32\frac{1}{2}''$	65"	1x4	\$1.97
K (2) Outer Slats $\frac{3}{4}'' \times 31\frac{1}{2}'' \times 30\frac{3}{4}''$	61 1/2"	1x4	\$1.97
L (2) Brackets $\frac{3}{4}'' \times 3'' \times 8''$	16"	1x4	\$1.97

M (4) Seat Slats 3/4" x 31/2" x 22"	88"	1x4	\$1.97
N (1) Back Seat Slat 3/4" x 31/4" x 22"	22"	1x4	\$1.97
HARDWARE:	cost box/100		
(4) #8 x 11/4" Fh exterior woodscrews			\$8.99
(57) #8 x 11/2" Fh exterior woodscrews			\$10.49
(10) #8 x 2" Fh exterior woodscrews			\$14.99

Equipment list

(all purchases will be estimated using the website <http://www.homedepot.ca/catalog/tools/172081>)

10" Sliding compound miter saw	drill bit 1/8" (6)
Jig saw	countersink bit #8 (2)
jig saw blades fine (6)	3x21 belt sander
electric drill	3"x 21" 220 grit belts (3)
Cordless drill	4" clamps (4)
#2 robertson driver bit (2)	

Production Options Submission Page

Before completing this page, complete an estimate of costs by using the excel file “Production Estimate Calculator” included in this package.

Name:

Project chosen:

Rationale (Why have you chosen to build this product):

Cost estimates

Estimated total variable cost per unit after taxes:

Estimated total fixed cost for equipment after taxes: