# **Learning from Home**

### Term 4 Weeks 2 and 3

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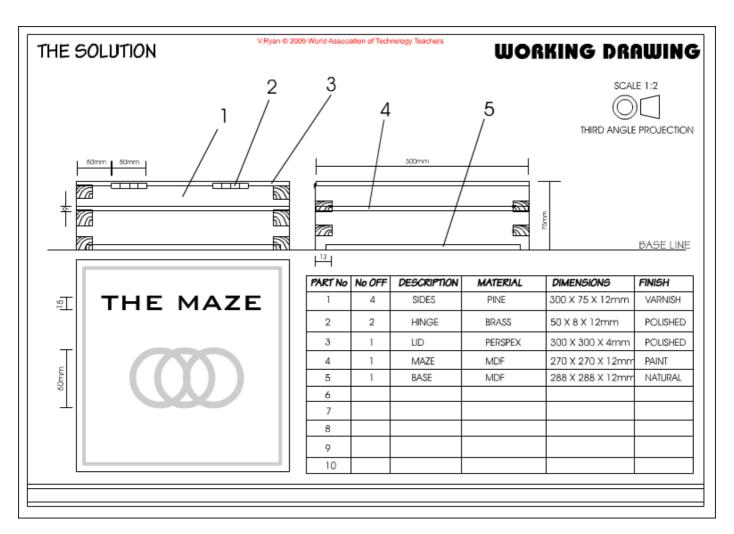
## **MANUFACTURING PRODUCTS AND REDUCING WASTE - 1**

V. Ryan © 2009-2017

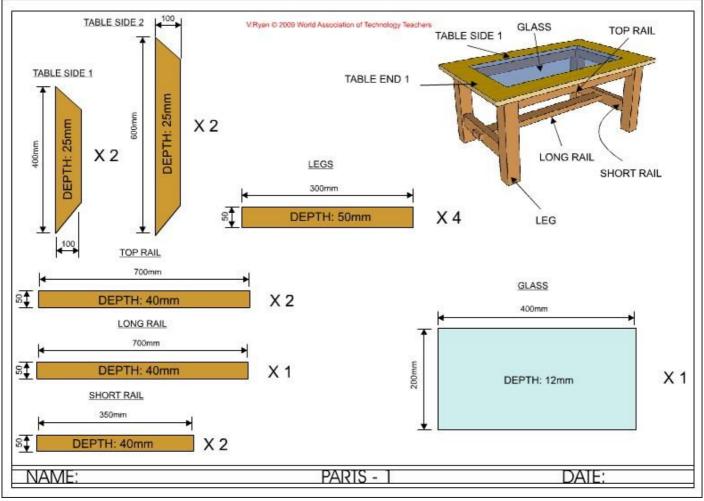
YouTube Video - Reducing Waste during the Manufacturing Process https://www.youtube.com/watch?v=EgkTxKDNosg

Good planning of the manufacturing process will reduce waste. It is essential that an accurate working drawing with a parts list are constructed. This type of careful planning means that only the right amount of material and the correct sections and sizes will be ordered. Waste is reduced.

A working drawing shows the product from a number of angles and also has precise measurements. Working drawings are usually accompanied by a parts list. This details all the parts that make up the product. Measurements for each part are also included. The example opposite shows a wooden box which houses a game.

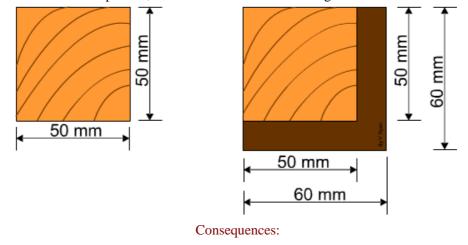


A parts sheet displays all the parts drawn separately. Precise measurements are included. This type of planning is useful, as it is possible to see all the parts before they are put together as a working drawing. Hidden parts are seen unlike on a working drawing.



Order the correct sections and lengths.

Example 1: A length of pine is required to manufacture four legs of a table. The working drawing shows that the legs have a square section of 50mm. However, a larger section (60 x 60mm) has been ordered. This means that the section will have to be cut down on a circular saw and then plained, before it can be used for the legs.



Material has been wasted.

The large section is more expensive.

Expensive time is wasted reducing the size of the materials.

The table is more expensive as a result.

Company	Website
Bunnings Warehouse	https://www.bunnings.com.au
North shore Timber & Hardware	https://www.nst.net.au/#pricelist (02) 4322 1633
Walker Brothers Timber & Building Supplies	https://walkerbros.com.au/product-category/radiata-standard/ (02) 4324 7355
Price lists I have downloaded from the websites.	https://drive.google.com/drive/folders/1y6GhjlaDrFkBmOX-NIGrKL7dGLK7ys_P?usp=sharing

Some price may not be on their website. You may need to call and ask. This task will help with an understanding of what it is like as a tradie ordering material.

Item	Finished	Timber	Lengths	Price per LM	Price per LM
No	Sizes DAR	Species Select	Available	Excluding GST	Including GST
1A	42 X 19	Radiata DAR		\$ 2.01	\$ 2.22
1B	70 X 19	Radiata DAR		\$ 3.03	\$ 3.34
1C	90 X 19	Radiata DAR	.900 , 1.2, 1.5	\$ 3.70	\$ 4.07
1D	140 X 19	Radiata DAR		\$ 5.60	\$ 6.16
1E	190 X 19	Radiata DAR	1.8 , 2.4	\$ 7.47	\$ 8.22
1F	240 X 19	Radiata DAR		\$ 10.09	\$ 11.10
1G	290 X 19	Radiata DAR	LENGTHS	\$ 12.86	\$ 14.15
1H	30 X 30	Radiata DAR	1	\$ 4.21	\$ 4.63
11	70 X 30	Radiata DAR	OR RANDOM	\$ 5.64	\$ 6.20
1J	90 X 30	Radiata DAR	1	\$ 7.49	\$ 8.24
1K	70 X 40	Radiata DAR	1	\$ 9.15	\$ 10.06
1L	90 X 40	Radiata DAR	1	\$ 12.15	\$ 13.37
1M	140 X 40	Radiata DAR	1	\$ 18.25	\$ 20.07
1N	190 X 40	Radiata DAR		\$ 33.47	\$ 36.82
10	140 X 12	VJ Radiata Lining	RANDOM ONLY	\$ 3.04	\$ 3.35
1P	140 X 12	Radiata DAR Clear		\$ 7.70	\$ 8.47
1Q	140 X 19	Radiata DAR Clear		\$ 11.30	\$ 12.43
1R	140 X 30	Radiata DAR Clear	.900 TO 2.4	\$ 19.55	\$ 21.51
18	180 X 30	Radiata DAR Clear	Mixed Lengths	\$ 26.52	\$ 29.18
1T	140 X 40	Radiata DAR Clear	]	\$ 26.40	\$ 29.04
1U	190 X 40	Radiata DAR Clear		\$ 36.30	\$ 39.93
1V	240 X 40	Radiata DAR Clear	.900 TO 2.4	\$ 46.90	\$ 51.59
1W	42 X 42	Radiata DAR Clear	1	\$ 8,47	\$ 9.32
			1	5.41	+ 5.52
1X	70 X 70	Radiata DAR	1 1	\$ 16.21	\$ 17.84
1Y	90 X 90	Radiata DAR	1	\$ 45.38	\$ 49.91

No.	Finished Sizes DAR	Timber Species	Lengths Available	Price per LM Excluding GST	Price per LM Including GST
4A	20 X 12	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$3.80	\$4.18
4B	60 X 12	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$4.61	\$5.07
4C	90 X 12	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$9.29	\$10.22
4D	140 X 12	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$15.08	\$16.59
4E	18 X 18	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$2.82	\$3.10
4F	42 X 19	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$3.63	\$3.99
4G	65 X 19	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$6.85	\$7.53
4H	90 X 19	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$11.26	\$12.39
41	140 X 19	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$19.64	\$21.61
4J	190 X 19	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$36.96	\$40.66
4K	65 X 32	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$11.99	\$13.18
4L	90 X 32	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$18.59	\$20.44
4M	140 X 32	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$30.78	\$33.86
4N	185 X 32	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$45.80	\$50.37
40	42 X 42	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$12.36	\$13.59
4P	65 X 42	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$18.71	\$20.58
4Q	90 X 42	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$27.91	\$30,70
4R	140 X 42	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$48.52	\$53.38
45	190 X 42	Tas Oak/Vic Ash Select Dressed	Random up to 3.6m	\$78.32	\$86.15
5T	235 X 19	Tas Oak/Vic Ash Select Lam Dressed	D. d		
5U	285 X 19	Tas Oak/Vic Ash Select Lam Dressed	Random up to 3.6m	\$0.00	\$0.00
4T	240 X 33		Random up to 3.6m	\$0.00	\$0.00
5W	240 X 33	Tas Oak/Vic Ash Select Lam Dressed	Random up to 3.6m	\$57.13	\$62.84
		Tas Oak/Vic Ash Select Lam Dressed	Random up to 3.6m	\$0.00	\$0.00
5X	240 X 43	Tas Oak/Vic Ash Select Lam Dressed	Random up to 3.6m	\$0.00	\$0.00
4U	65 X 65	Tas Oak/Vic Ash Select Lam Dressed	Random up to 3.6m	\$41.36	\$45.50
4V	90 X 90	Tas Oak/Vic Ash Select Lam Dressed	Random up to 3.6m	\$63.36	\$69.70

Jarrah Dressed Select Seasoned (Australian Product)						
Item No	Dressed Sizes	Timber Species Select Seasoned	Lengths Available	Pric	ce per LM uding GST ressed	Price per LM Including GST Dressed
5A	66 x 18	Jarrah	Subject	\$	17.58	\$19.34
5B	90 x 18	Jarrah	to availability	\$	20.99	\$23.09
5C	140 x 18	Jarrah	of lengths	\$	35.16	\$38.68
5D	185 x 18	Jarrah		\$	52.51	\$57.76
5E	66 x 30	Jarrah		\$	28.73	\$31.60
5F	90 x 30	Jarrah		\$	35.54	\$39.10
6G	120 x 30	Jarrah	Subject	\$	23.56	\$25.92
5G	140 x 30	Jarrah	to availability	\$	57.48	\$63.23
5H	185 x 30	Jarrah	of lengths	\$	86.88	\$95.57
51	40 x 40	Jarrah		\$	23.80	\$26.18
5J	66 x 40	Jarrah	Subject	\$	40.87	\$44.95
5K	90 x 40	Jarrah	to availability	\$	47.60	\$52.36
5L	140 x 40	Jarrah	of lengths	\$	81.73	\$89.91
5M	185 x 40	Jarrah		\$	121.89	\$134.08
5N	70 x 70	Jarrah Laminated		\$	97.06	\$106.77
50	90 x 90	Jarrah Laminated		\$	134.80	\$148.28

item #	Finished Sizes DAR	Timber Species	Price per LM Excluding GST	Price per LM Including GST
6A	140 x 19	Blackbutt DAR	\$26.69	\$29.35
6B	70 x 30	Lengths 1.2 1.5 1.8, 2.1, 2.4 to 3.0m  Aust. Hardwood Mixed Species Seas	\$11.66	\$12.83
6C	90 x 30	Lengths 1.2 1.5 1.8, 2.1, 2.4 to 3.0m  Aust. Hardwood Mixed Species Seas		
		Lengths 1.8, 2.1, 2.4 to 3.0m	\$15.71	\$17.28
6D	140 x 30	Aust. Hardwood Mixed Species Seas Lengths 1.8, 2.1, 2.4 to 3.0m	\$26.69	\$29.35
6E	190 x 30	Aust. Hardwood Mixed Species Seas	VEG.00	929,33
6F	40 x 40	Lengths 1.8, 2.1, 2.4 to 3.0m Hardwood Mixed Species	\$39.64	\$43.61
		Lengths 1.8, 2.1, 2.4 to 3.0m	\$12.36	\$13.60
6G	70 x 40	Aust. Hardwood Mixed Species Seas Lengths 1.8, 2.1, 2.4 to 3.0m	\$17.51	\$19.26
6H	90 x 40	Aust. Hardwood Mixed Species Seas	\$17.01	\$19.25
61	140 x 40	Lengths 1.8, 2.1, 2.4 to 3.0m  Aust. Hardwood Mixed Species Seas	\$24.71	\$27.18
6J	190 x 40	Lengths 1.8, 2.1, 2.4 to 3.0m  Aust. Hardwood Mixed Species Seas	\$40.46	\$44.50
6K	240 :: 40	Lengths 1.8, 2.1, 2.4 to 3.0m	\$60.04	\$66.04
or.	240 x 40	Aust. Hardwood Mixed Species Seas Lengths 1.8, 2.1, 2.4 to 3.0m	\$81.97	\$90.17
6L	290 x 40	Aust. Hardwood Mixed Species Seas		
6M	88 x 88	Lengths 1.8, 2.1, 2.4 to 3.0m  Blackbutt Laminated DAR	\$123.44 \$67.65	\$135.79 \$74.42

#### **QUESTIONS:**

- 1. Using the internet, find a wood suppliers.
- 2. Identify the different sections available for pine boards.
- 3. List the prices of the various sections you found in question 2.
- 4. Find the prices of the same or similar sections in two other types of natural woods.

#### Wood 1

Pine Section	I	Price			
	P/m	Total			
Legs (radiata pine 70 x 70)	\$17.84 per metre including GST	\$21.40 for the total material			
Top Rail					
Long Rail					
Short Rail					
Table Side					

Section	Price			
	P/m	Total		
Legs				
Top Rail				
Long Rail				
Short Rail				
Table Side				

Section	Pr	ice
	P/m	Total
Legs		
Top Rail		
Long Rail		
Short Rail		
Table Side		
Tuble blue		