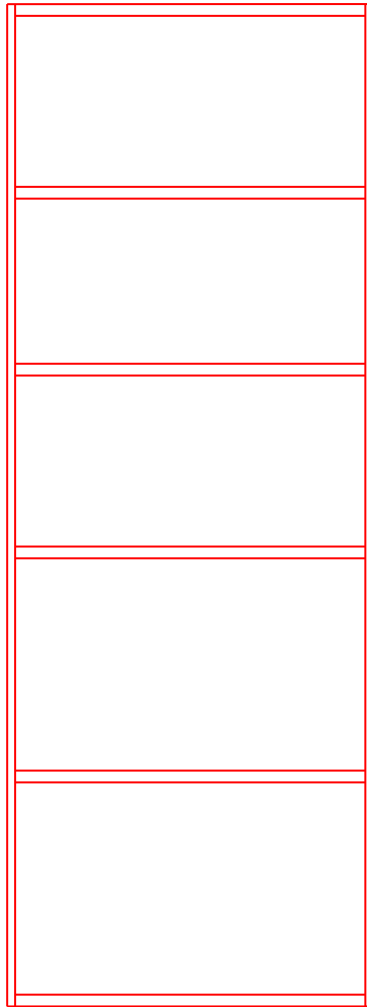


## Sample Solutions

1. a) Scale 1:10 ✓

Drawing ✓✓✓

(4 Marks)



**These Diagrams are not drawn to scale – please use correct scale for your submission**

1. b)

2 x sides ✓  
Pine  
1830 x 300  
x 20 mm ✓  
Shape ✓



1 x back 3 ply ✓  
1830 x 920 x 3mm ✓  
Shape ✓



6 x shelves ✓  
pine  
880 x 300  
x 20mm ✓  
Shape ✓  
(9 Marks)

2. a)  $2 \times \text{[ ]} + 6 \times \text{[ ]}$  ✓  
 $= \text{[ ]} + \text{[ ]}$  ✓  
 $= \text{[ ] mm of Pine}$  (or  $\text{[ ]}$ ) ✓

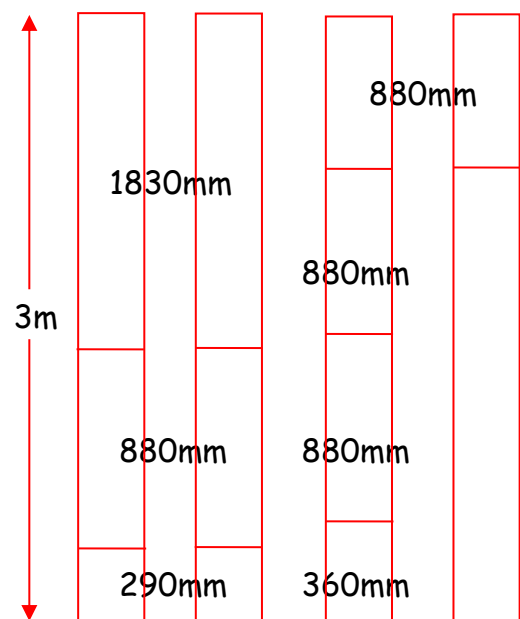
b)  $\text{[ ]} \times 920 = \text{[ ] mm}^2 \text{ of 3 ply}$  (or  $\text{[ ] m}^2$ ) ✓✓✓  
 (6 Marks)

3. Cutting → Gluing → Screwing → Tacking the Back → Spray → Dry  
 → Spray → Dry → Spray → Dry → Finish. ✓✓✓  
 (3 Marks)

4. a)  $\text{[ ]}$  lengths per unit  
 or  $\text{[ ]}$  lengths for 3 units ✓✓

b) Total waste for 3 units  $\text{[ ] mm}$  ✓✓

c) Cost for 3 units  
 $= \text{[ ]} \times \$42.90 = \$\text{[ ]}$  ✓✓  
 Cost for 1 unit  
 $= \$\text{[ ]} \div 3 = \$\text{[ ]}$  ✓



(7 Marks)

5. Total cost for 1 unit.

Pine	=		= \$143.00
3 ply	=		= \$11.45 ✓
Paint	=	$\text{[ ]} \times \$30/l = \text{[ ]} \times \$30$	= \$[ ] ✓
Thinners	=	$\text{[ ]} \times \$\text{[ ]}/l = \text{[ ]} \times \$\text{[ ]}$	= \$[ ] ✓
Woodglue	=	$\text{[ ]} \times \$15/l = \text{[ ]} \times \$15$	= \$[ ] ✓
Wood screws	=	$\text{[ ]} \times \$\text{[ ]}$	= \$1.08 ✓
Tacks	=	$\text{[ ]} \times \$12$	= [ ] ✓
Total			= \$[ ] ✓

(5 Marks)

6. Total time for 1 unit

Mark and cut	=		=		min ✓
Glue, screw together & tack back	=		=		min ✓
Spraying	=		=		min ✓
Total time	=		=		min ✓
			=		min

(4 Marks)

7. Labour cost

		hrs x \$50 ✓
=	\$	✓

(2 Marks)

8. Total Cost is

	\$	+	\$	=	\$	✓
Charge per Bookcase	=	\$	+ 15%			
	=	\$	+ \$		✓	
	=	\$		✓		
	≈	\$				

(3 Marks)

9. 7.30pm → 4pm =

less: 25 min, 45 min & 20 min	=			✓
Total hours worked per day	=		=	hrs ✓
Time worked in 12 days	=		=	hrs ✓
Time required to make 40	=		=	hrs ✓
Overtime Roemi needs to do	=		=	hrs ✓

(5 Marks)

10. Profit

	=	( \$326 - \$	) x 40
	=	\$	x 40 ✓
	=	\$	✓

(2 Marks)

Total Marks (50 Marks)