FINAL TEST (SHORT ANSWERS)

NOTE: RECORD YOUR ANSWERS ON THE LAST PAGE

Date:_____ Name: _____

Grade:_____ Student #_____

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1. How much would it cost to cover a floor 9m x 6m with a carpet valued at $13.00 per square meter?
2. The total height of a table is made up of the following dimensions: 1 ¾", 1/8", 1' 7 ½", 5/16". How high is the table in inches?
3. Divide $144.00 between two persons at a ratio of 5:7. (12 parts)
4. What is the diameter of a pulley, which revolves at 225 RPM if it is driven by a 6" pulley running at 900 RPM?
5. An edge sander has a driving wheel 6" dia. And an idling wheel 3" dia. The center to center distance between these wheels is 84". What length of belt is required? (round to 2 decimal places)
6. You are to calculate the total glue requirements for a veneer run as follows:

   Quantity: 47- three-ply panels

   Finish size: 29" x 22"

   Coverage = 20 grams/ sqft

   Waste = 10%

   2:1 ratio of resin & water respectively

Note: Do **not** add 1" to length/ width for rough size – no allowances required.

7. Sarah and Kyle "thought once and cut twice" too many times. As a result, we need to reproduce:

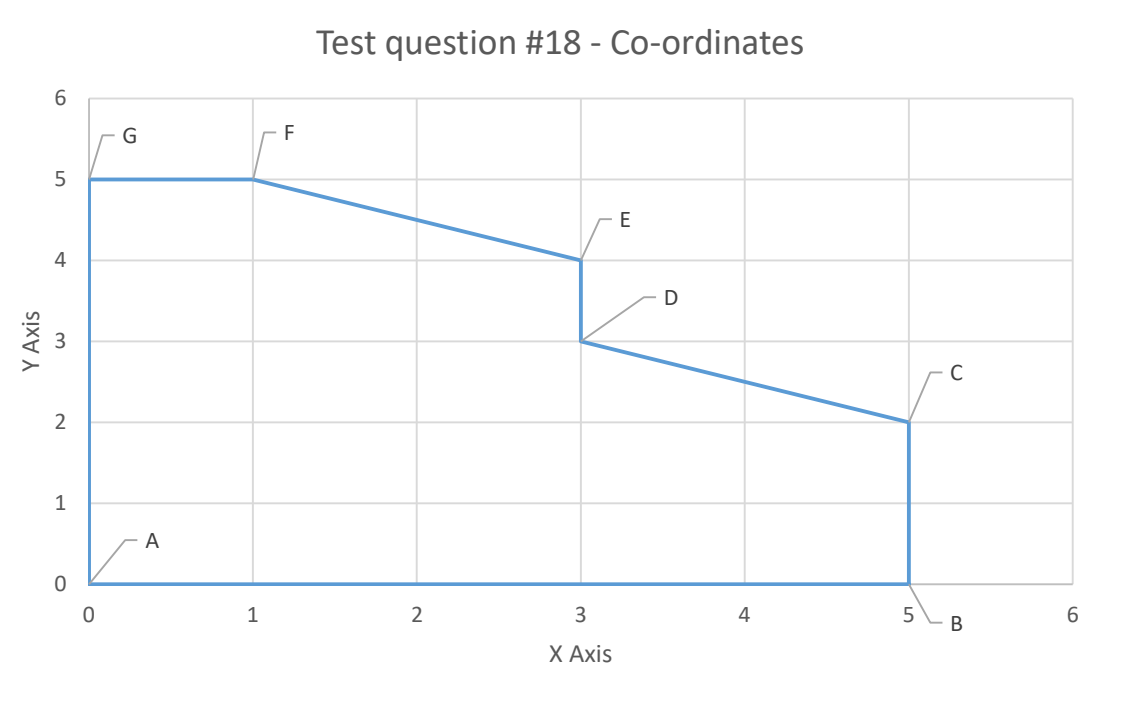
   A total of ***47 pieces***, 3-ply tops (consisting of):

1 -	Particle core ($\frac{11}{16}$")	23" x 17"	add 20% waste	@ $0.32/sqft
1 -	Face veneer	23" x 17"	add 100% waste	@$0.45/sqft
1 -	Back veneer	23" x 17"	add 100% waste	@$0.16/sqft
4 -	Headers	33" x 2 ½" x 4/4	add 60% waste	@$2.92/bf

   What is the cost of their mistake?

   - Fill in the cost of each part for the whole job. Ie. Particle core cost x 47 pcs for the "core cost".
   - **(Note**: - Calculate the sizes as is, do not change to rough sizes.)

8. Based on the drawing shown, identify the points listed. Work counter clockwise. (1/2 mark per co-ordinate) (7 marks total)



Absolute Coordinates			Incremental Coordinates	
A	X0, Y0		A	X0, Y0
B			B	
C			C	
D			D	
E			E	
F			F	
G			G	
A			A	

Answers: (all questions worth 2 marks unless otherwise noted.)

1. _____

_____

2. _____

3. _____

4. _____

5. _____

6. Total Square footage to cover: _____ (4 marks total)

Total Grams of Glue (with waste): _____

Resin: _____ g

Water: _____ g

7. (5 marks)

Core cost (all): _____ **Total Cost (all)**_____

Face veneer cost (all): _____

Back veneer cost (all): _____

Solid cost (all): _____

8. Fill in the **Absolute co-ordinates** and **Incremental co-ordinates** in their respective charts on page #3. (7 Marks)

Formulas

Area = Length x Width

10 mm = 1 cm 100 cm = 1 m 1000 mm = 1 m

Pulley Ratio = Drive (motor)/ Driven (Arbor)

Rim Speed = $\frac{\pi \, x \, d}{12}$ x rpm $\pi = 3.1416$

Sander belt = ($\frac{\pi \, x \, d \, (wheel \, \#1)}{2}$) + ($\frac{\pi \, x \, d \, (wheel \, \#2}{2}$) + (2 x center to center)

Board foot = $\frac{Lengt \quad (in \; inch \quad) \, x \, Width \, (in \; inche \;) x \, Thickness \, (in \; inch \quad)}{144}$