# Final Test (SHORT ANSWERs)

# Note: Record your answers on the last page

Date: Name:

Grade: Student #

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.

1. 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 (”) 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.)

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



**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 = x rpm

Sander belt = ( ) + () + (2 x center to center)

Board foot =