



*Junior Certificate Examination 2009*

***Materials Technology - Wood***  
***Ordinary Level***  
***Section A (40 Marks)***

***Monday, 15 June***  
***Afternoon, 2.00 to 4.00***

***Instructions***

- (a) Answer any **sixteen** questions.
- (b) All questions carry equal marks.
- (c) Answer the questions in the spaces provided.
- (d) This booklet **must** be handed up at the end of the examination.
- (e) Write your examination number in the box provided and on all other pages used.

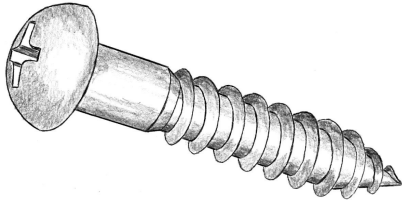
***Examination Number:***

Centre Number	
Section A	
1	
2	
3	
4(a) or (b)	
5	
<b>Total</b>	

## SECTION A - 40 MARKS

Answer any 16 questions from this section. All questions carry equal marks.

1. From the list given, identify the screw type shown.



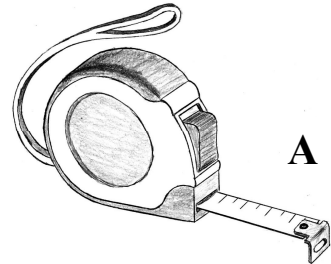
Round Head Screw  
Raised Head Screw  
Countersunk Head Screw

NAME

2. Name the tool labelled **A** in the diagram and give its use.

NAME

USE

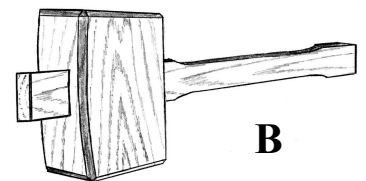
  


OR

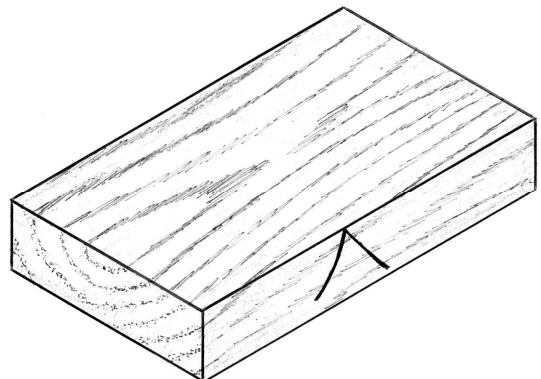
Name the tool labelled **B** in the diagram and give its use.

NAME

USE

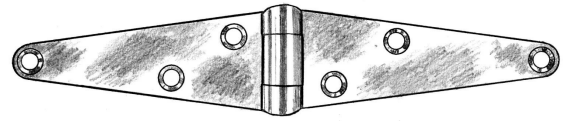
  


3. The diagram shows a piece of wood with a face edge mark.  
Show the **face side** mark in its proper place on the sketch.



4. Name the fitting shown and give its correct use.

NAME



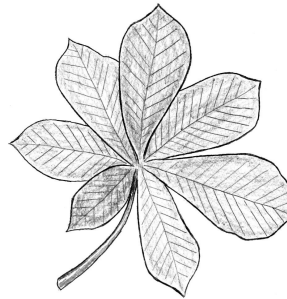
USE

5. State which trees in the list these leaves come from.

A



B



Sycamore

Oak

Beech

Ash

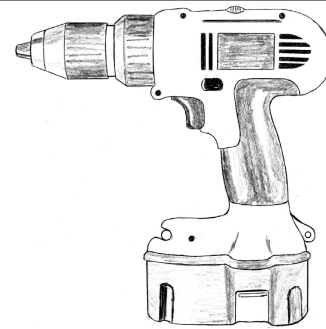
Horse Chestnut

Pine

TREE A

TREE B

6. Name the power tool shown in the diagram.



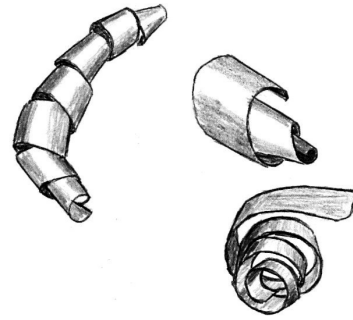
NAME

7. List **two** safety precautions that should be observed when using sharp tools.

1.

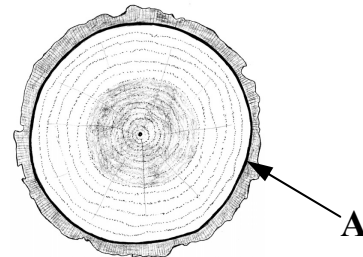
2.

8. What makes shavings curl when planing?



ANSWER

9. The diagram shows part of the cross section of a tree.  
Give the full name for the cells shown at A, which are directly underneath the bark.

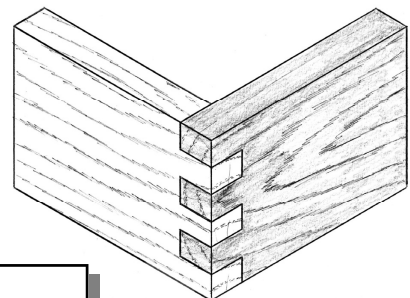


NAME

10. Trees can be divided into two main categories, coniferous and deciduous.  
Show by means of a tick (✓) the correct category for each tree listed below.

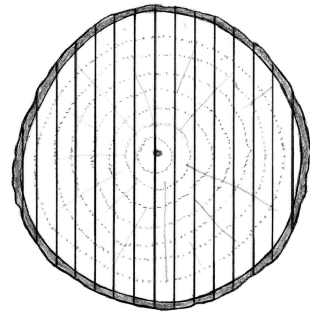
	Coniferous	Deciduous
<b>TREE</b> Beech		
Ash		
Lime		
Pine		
Sitka Spruce		

11. Name the joint shown.



NAME

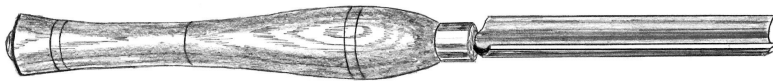
12. Name this method of converting a log into boards.



ANSWER

13. From the list given, name the lathe turning tools shown at A and B.

A



Parting tool

Square-end scraper

Skew chisel

B



Roughing gouge

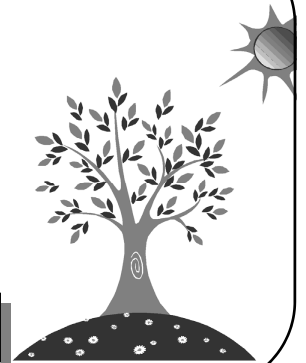
Round scraper

A

B

14. The leaves of a tree use light, carbon dioxide and sap to make food for the tree.

What is this process called?



ANSWER

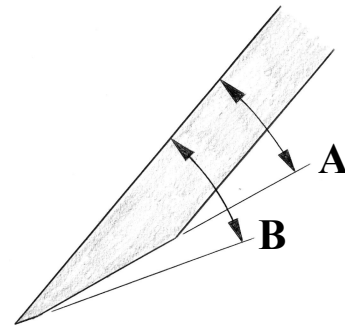
15. Plywood is a manufactured board.

Name two other manufactured boards.

1.

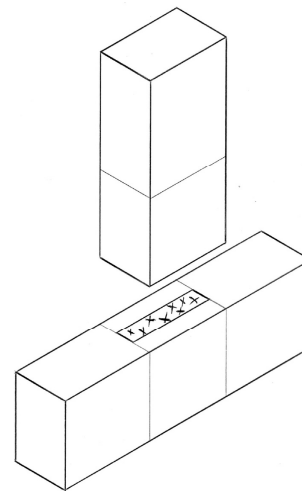
2.

16. When sharpening the blade of a plane or chisel, angle **A** is called the grinding angle.  
What is angle **B** called?

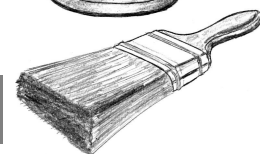
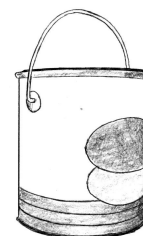


NAME

17. Complete the marking out of the **Mortice and Tenon** joint shown.

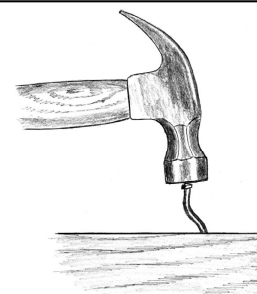


18. What is used to clean a brush after applying oil-based varnish or gloss paint?



ANSWER

19. Give **two** possible reasons why a nail might bend when being hammered into wood.



1.

2.

**20.** Give **one** advantage that a USB flash drive has over a floppy disk when storing files.



**ANSWER**

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