

Candidate Name	Centre Number	Candidate Number

WELSH JOINT EDUCATION COMMITTEE



CYD-BWYLLGOR ADDYSG CYMRU

ENTRY LEVEL CERTIFICATE

TYSTYSGRIF LEFEL MYNEDIAD

725/01

**Entry Level Certificate**

**GRAPHICAL AND MATERIAL STUDIES**

**(Woodcraft)**

P.M. THURSDAY, 23 March 2006

(½ Hour)

**Examiner only**

<b>Total Marks</b>	
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**INSTRUCTIONS TO CANDIDATES**

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Underline **or** circle the correct answer **or** write in the spaces provided in this booklet.

If you have difficulty in reading a question, put up your hand and the teacher-in-charge will read it to you.

**INFORMATION FOR CANDIDATES**

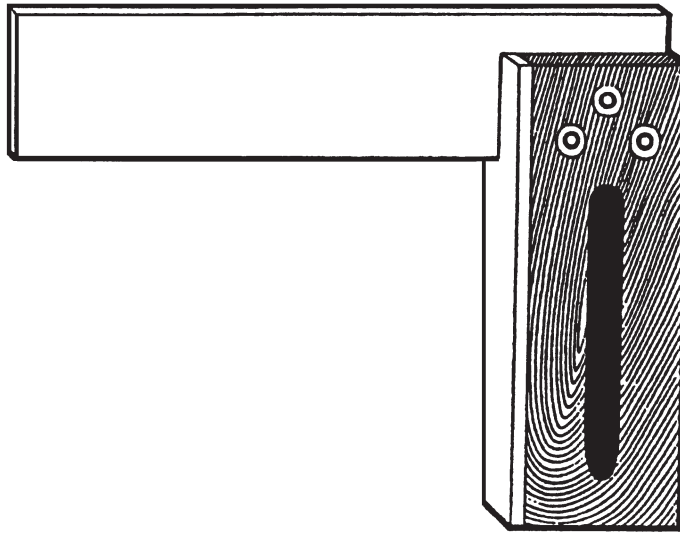
**Each** question carries **five** marks.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

Answer **all** questions.

Underline **or** circle *the correct answer or* write in the spaces provided.

1. The tool shown below is used in the Design and Technology room.



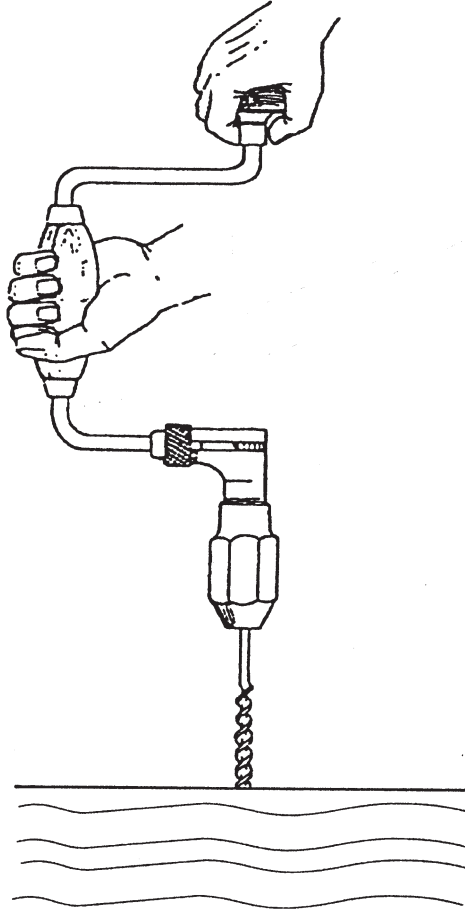
The tool shown is **one** (1) of the following:

- (a) Sliding bevel;
- (b) Tee square;
- (c) Try square;
- (d) Mitre square.

**Underline** the correct answer.

[5]

2. The tool shown below is used to make a hole in a piece of wood.



The tool shown is **one** (1) of the following:

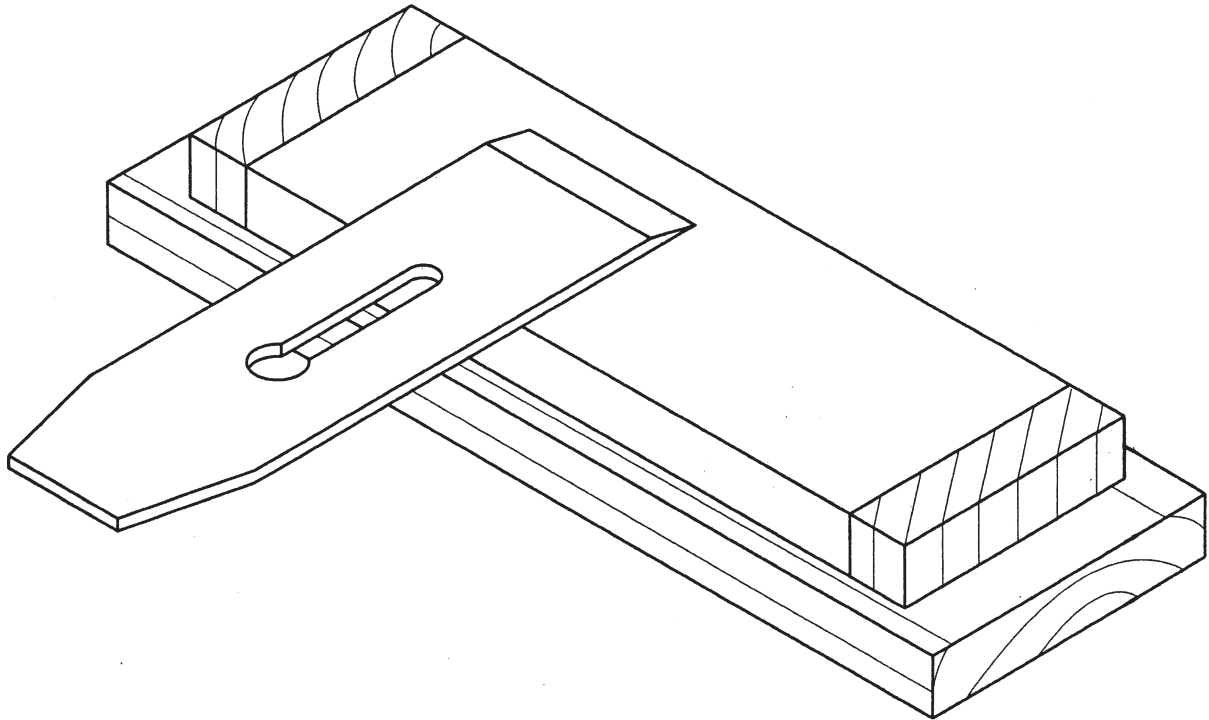
- (a) Hand drill;
- (b) Bradawl;
- (c) Carpenter's brace and bit;
- (d) Long hole borer.

**Underline** the correct answer.

[5]

3. This question is about sharpening a plane blade.

The sketch below shows a stage in the sharpening process.



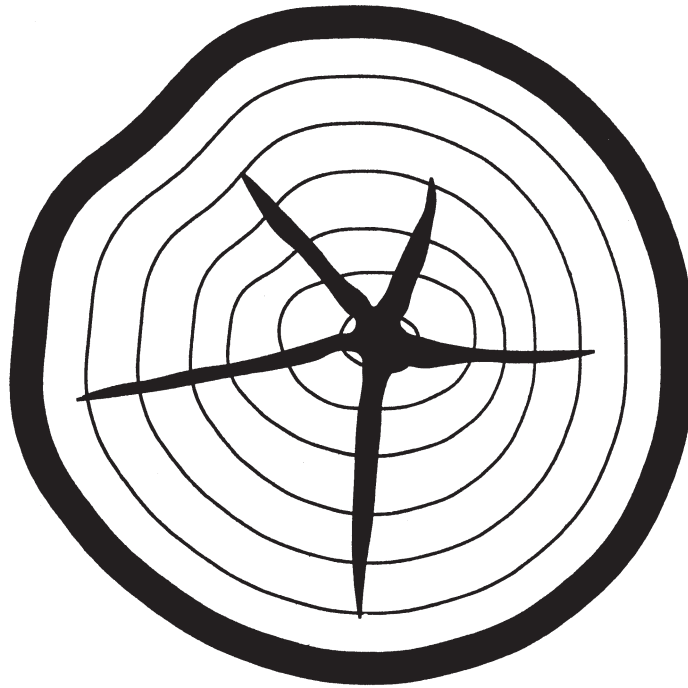
The stage in the sharpening process is **one** (1) of the following:

- (a) Grinding the back of the blade;
- (b) Backing off the burr;
- (c) Polishing the back of the blade;
- (d) Cleaning the oilstone after sharpening.

**Underline** the correct answer.

[5]

4. The sketch below shows a defect (fault) in the end of a log.



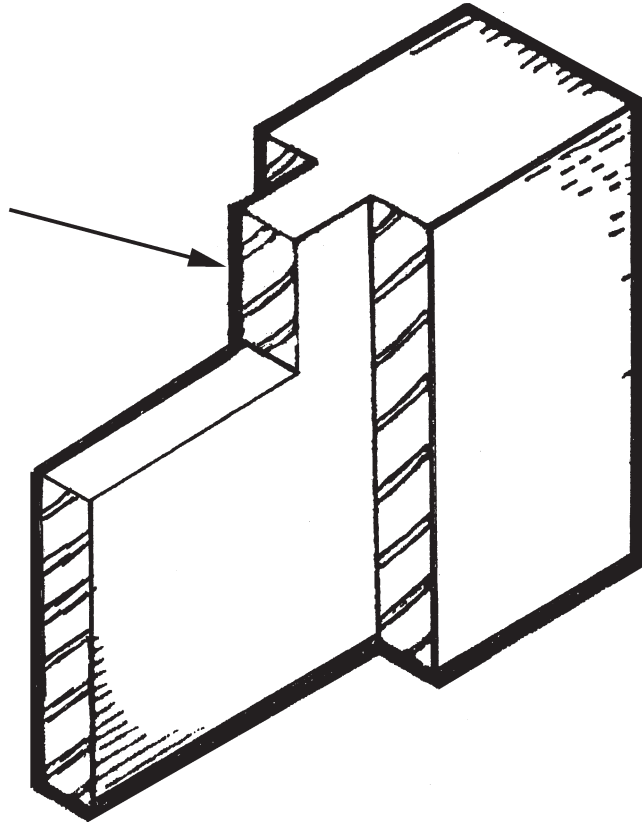
The defect (fault) in the end of the log is **one** (1) of the following:

- (a) Cup shake;
- (b) Thunder shake;
- (c) Timber shake;
- (d) Star shake.

**Underline** the correct answer.

[5]

5. The sketch below shows a Tenon.



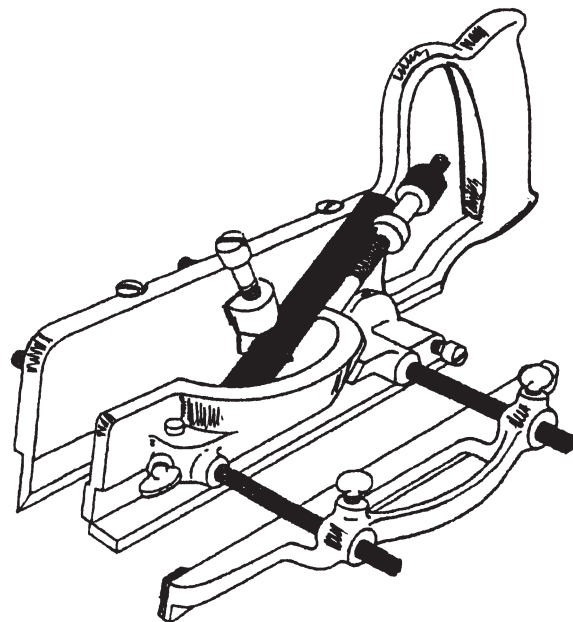
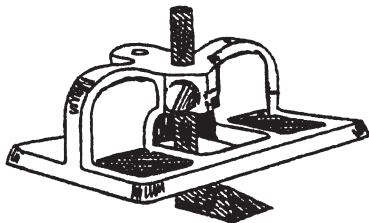
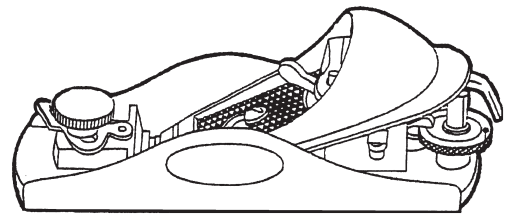
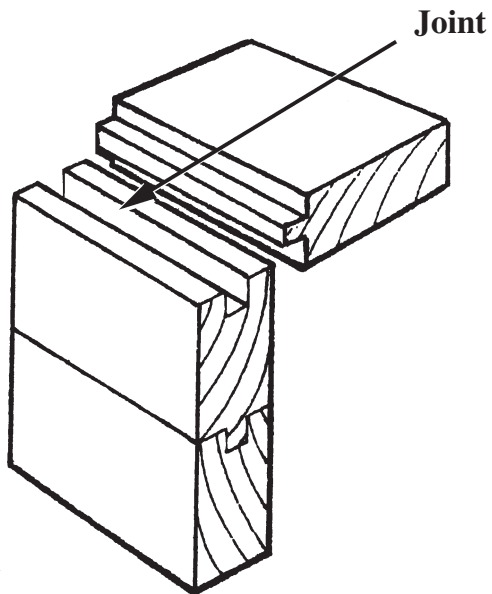
The arrow is pointing to **one** (1) of the following:

- (a) Hasp;
- (b) Hinge;
- (c) Hand;
- (d) Haunch.

**Underline** the correct answer.

[5]

6. The sketches below show a joint and **three** (3) types of plane.

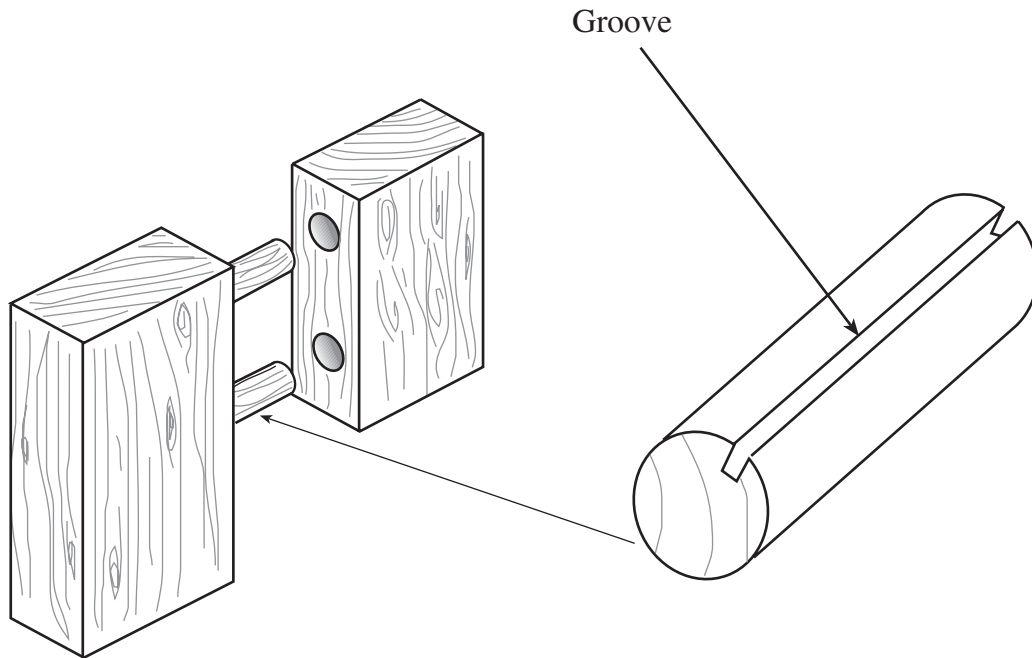


(a) **Circle** the plane you would use to make both parts of the joint. [2]

(b) **Write** the name of the plane on the line below. [3]

The plane is called a .....

7. The sketch below shows a dowel joint and an enlarged view of a dowel.



The dowel has a groove cut along its length for **one** (1) of the following:

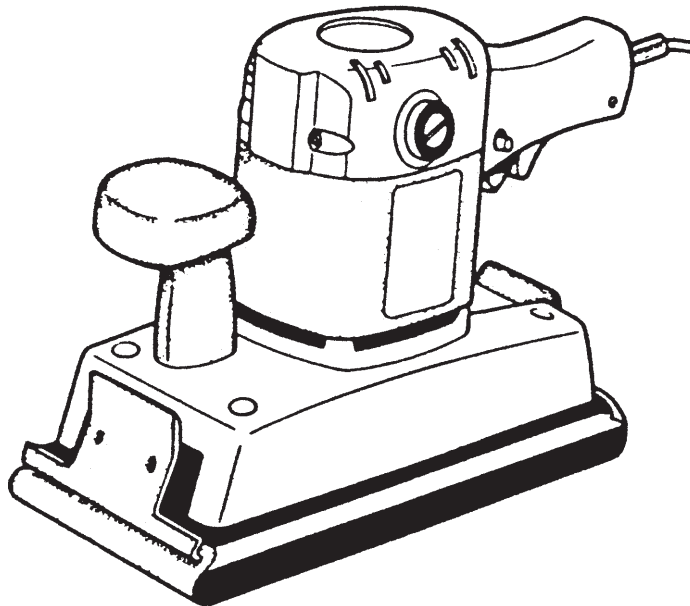
- (a) to allow air and glue to escape;
- (b) to help it fit in the hole;
- (c) because dowel is made like this;
- (d) the saw cut was made in the wrong place.

**Underline** the correct answer.

[5]



8. The tool shown below is an Orbital Sander used in the Design and Technology room.



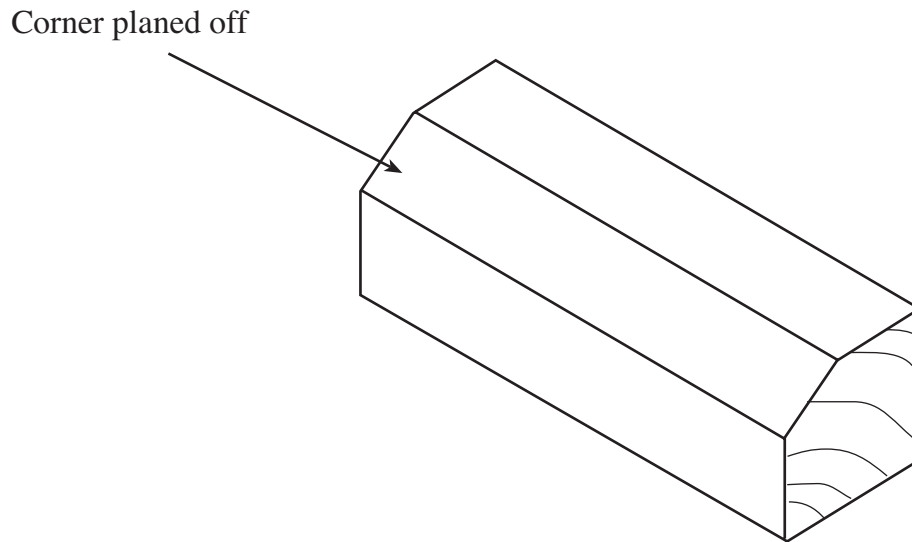
The Orbital Sander is used for **one** (1) of the following:

- (a) Sanding into corners;
- (b) Sanding flat surfaces;
- (c) Sanding curved shapes;
- (d) Sanding a bowl on the lathe.

**Underline** the correct answer.

[5]

9. The sketch below shows a piece of wood with the corner planed off.



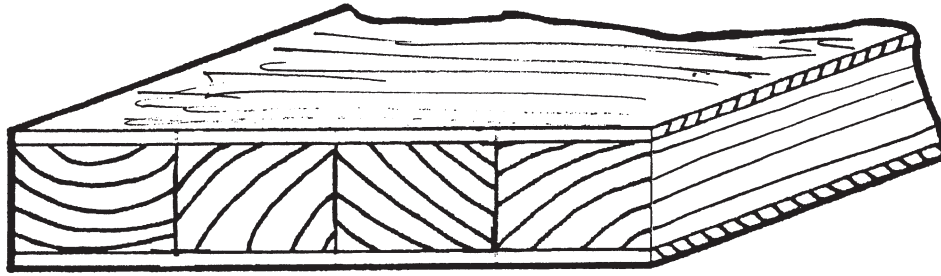
This is called **one** (1) of the following:

- (a) Bevel;
- (b) Slope;
- (c) Chamfer;
- (d) Flush.

**Underline** the correct answer.

[5]

10. The sketch below shows a Man-made Board.



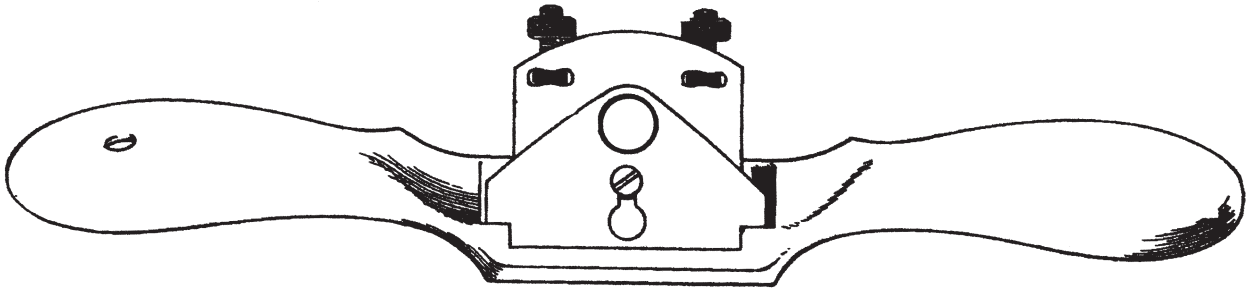
The Man-made Board is **one** (1) of the following:

- (a) Blockboard;
- (b) MDF;
- (c) Hardboard;
- (d) Chipboard.

**Underline** the correct answer.

[5]

11. The tool below is a special type of plane which is used in the Design and Technology room.



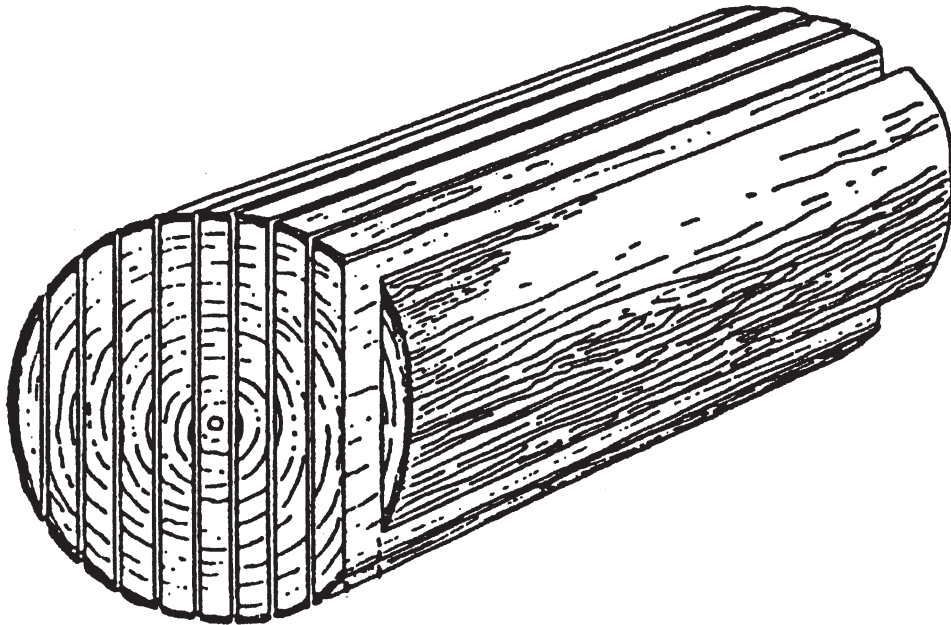
The tool above is **one** (1) of the following:

- (a) Rebate plane;
- (b) Jack plane;
- (c) Router plane;
- (d) Spoke shave.

**Underline** the correct answer.

[5]

12. A method (way) of cutting timber up into planks is shown below.



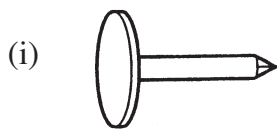
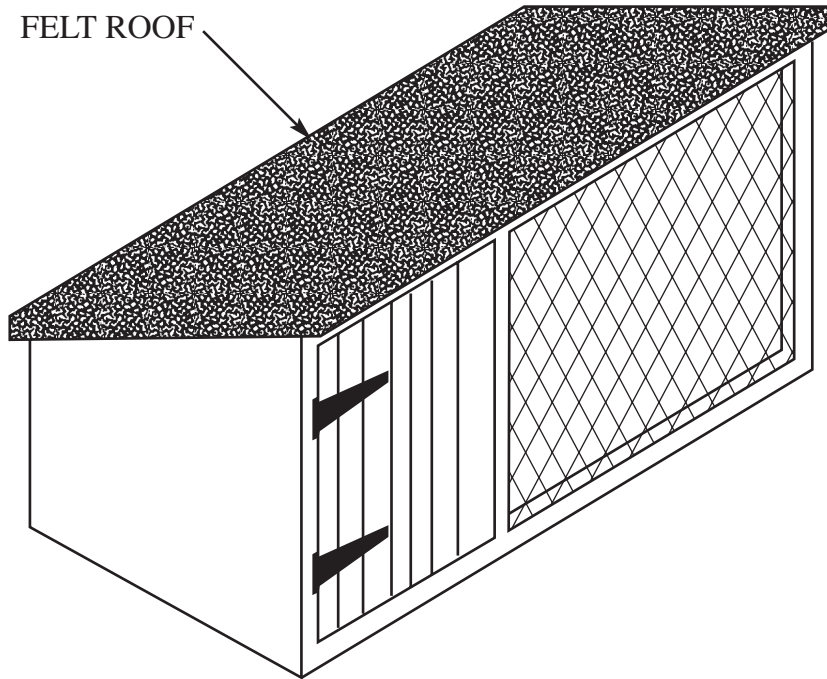
The method (way) of cutting timber into planks is **one** (1) of the following:

- (a) Through and through sawn;
- (b) Long sawn;
- (c) Chain sawn;
- (d) Quarter sawn.

**Underline** the correct answer.

[5]

13. The sketches below show a rabbit hutch and **three** (3) types of nail.

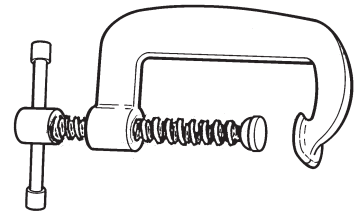
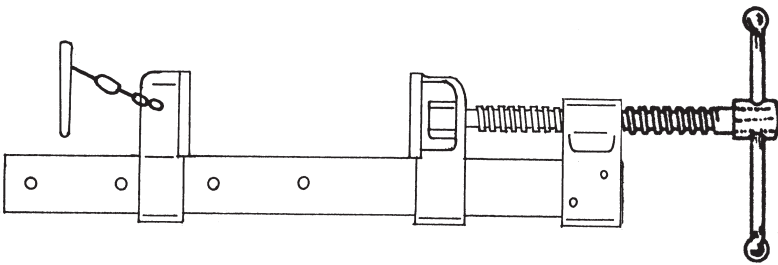
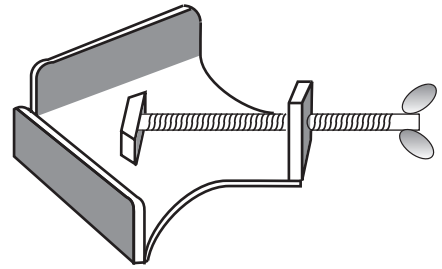
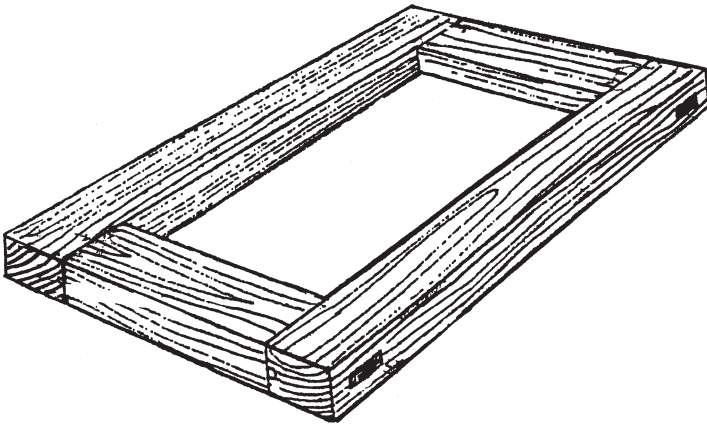


(a) **Circle** the nail you would use to attach the FELT to the roof. [2]

(b) **Write** the name of the nail on the line below. [3]

The nail is called a .....

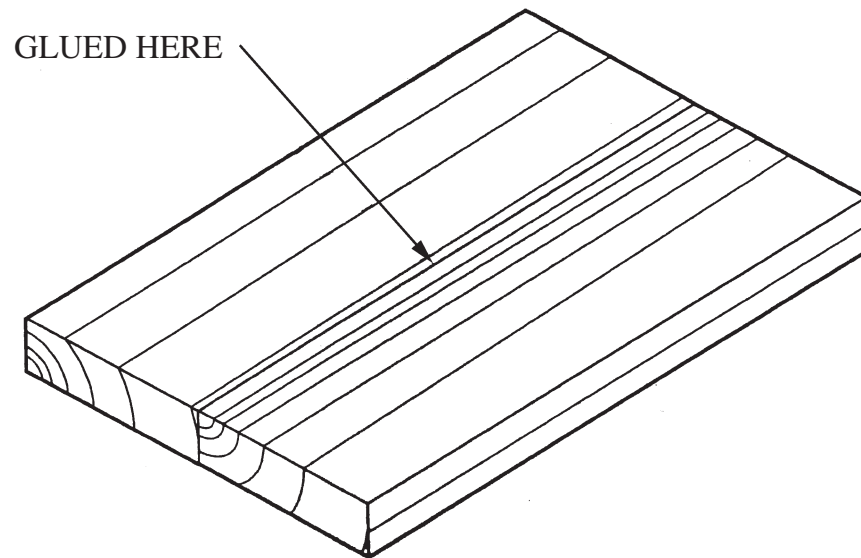
14. The sketches below show a frame which has to be glued together and **three** (3) types of cramps.



- (a) **Circle** the clamp you would use to hold the frame together whilst the glue dries. [2]  
 (b) **Write** the name of the clamp on the line below. [3]

The clamp is called a .....

15. The sketch below shows two (2) boards joined together to make one (1) wide board for a coffee table top.



The joint used to join the two (2) boards shown above is called **one** (1) of the following:

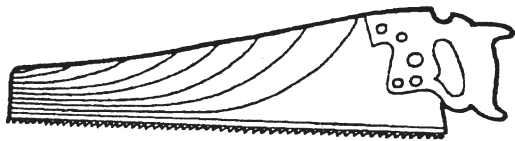
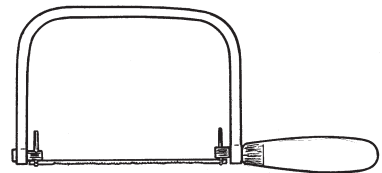
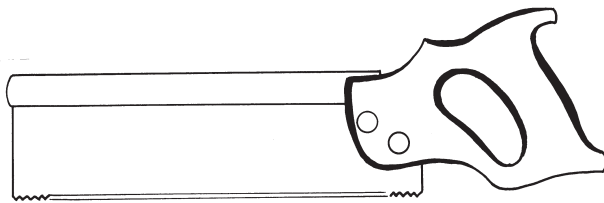
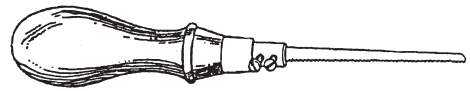
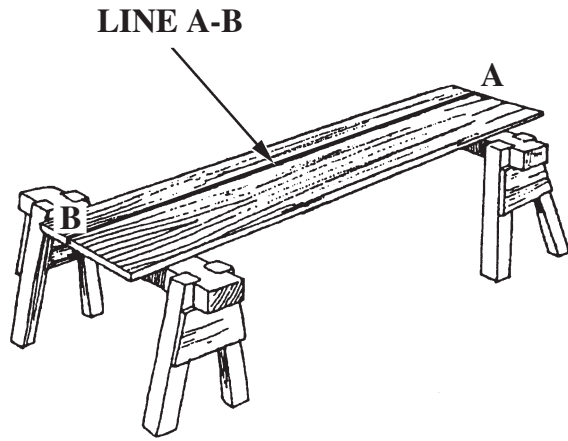
- (a) Glued joint;
- (b) Flat joint;
- (c) Mortise and tenon joint;
- (d) Butt joint.

**Underline** the correct answer.

[5]



16. This question is about cutting chipboard with a saw. The board is to be cut along the line A-B.

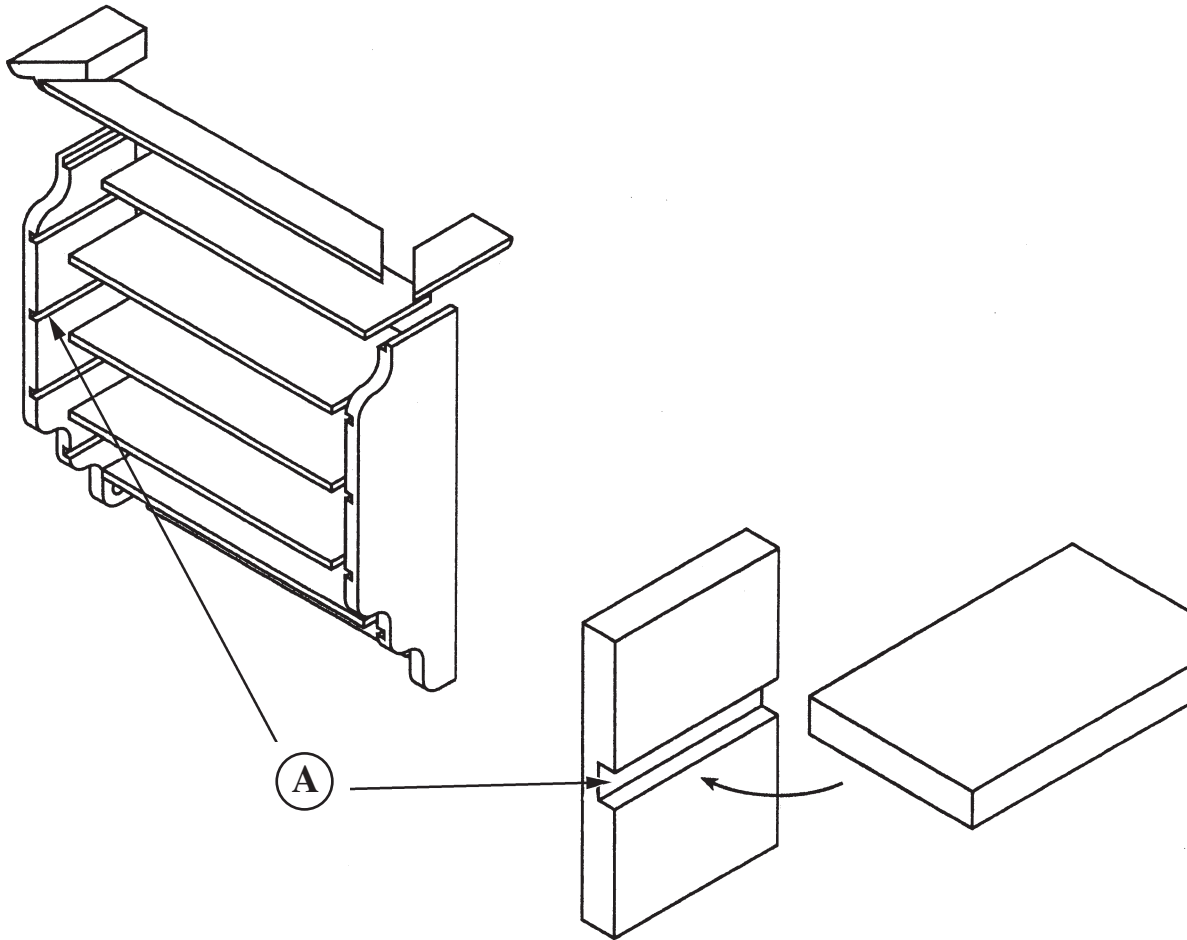


(a) **Circle** the saw you would use. [2]

(b) **Write** the name of the saw on the line below. [3]

I would use a ..... to cut along the line.

17. The sketch below shows the parts of a set of bookshelves and the joint at **(A)**.



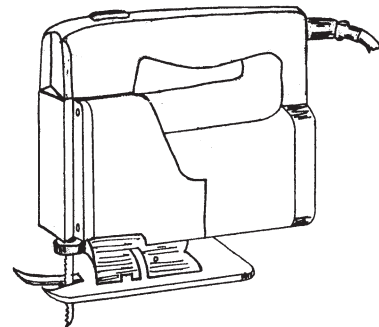
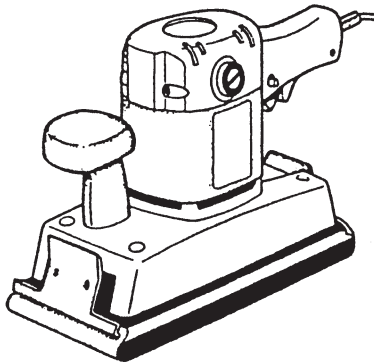
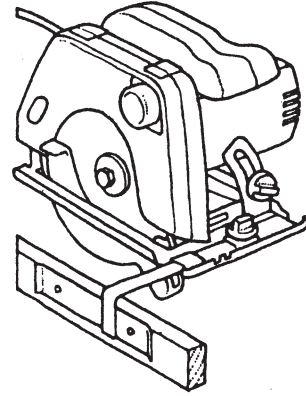
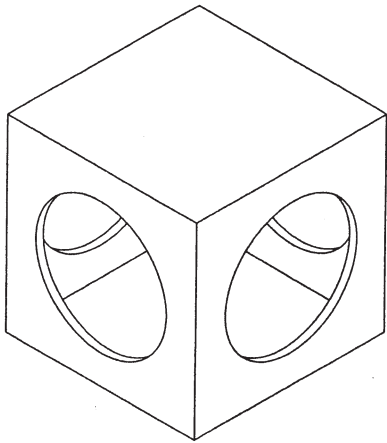
The joint **(A)** is called **one** (1) of the following:

- (a) Rebate joint;
- (b) Cross halving joint;
- (c) Through housing joint;
- (d) Dowel joint.

**Underline** the correct answer.

[5]

18. The sketches below show a box made from plywood with holes cut out of the sides and **three (3)** power tools.

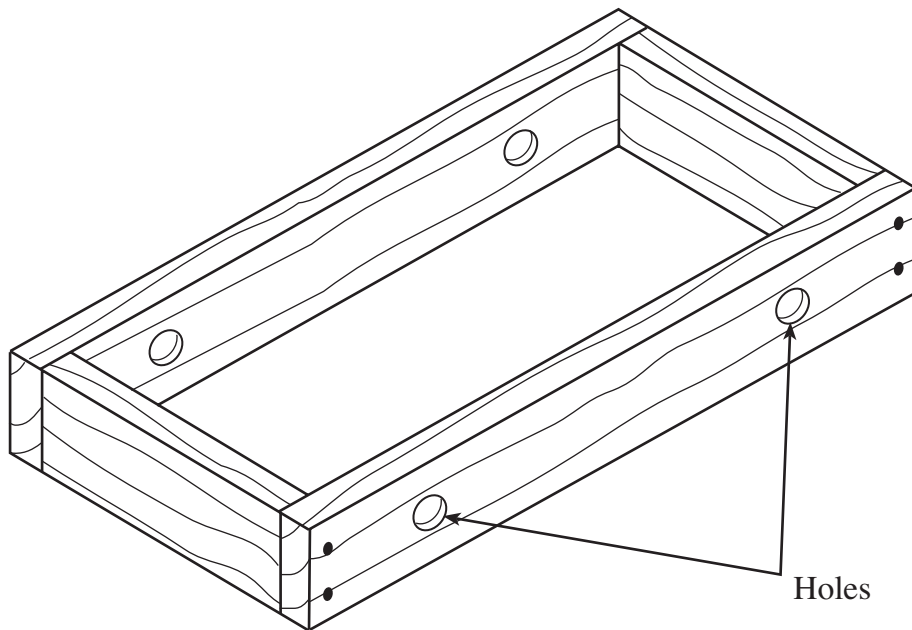


(a) **Circle** the power tool you would use to cut out the holes in the side of the box. [2]

(b) **Write** the name of the power tool on the line below. [3]

The power tool is called a .....

19. The sketches below show a small frame, which has had holes drilled through it and the tool used to drill the holes.



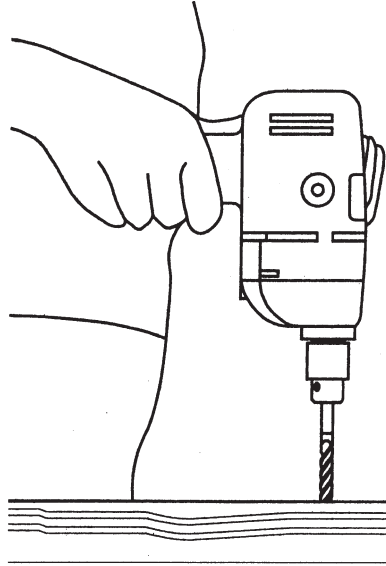
The tool used to make the holes is **one** (1) of the following:

- (a) Twist drill;
- (b) Centre bit;
- (c) Axle drill;
- (d) Countersink bit.

**Underline** the correct answer.

[5]

20. The tool shown below is used to drill a hole in a piece of wood.



On the lines below, **write** down **five** (5) safety rules you should take when using the electric drill. [5]

- (i) .....
- (ii) .....
- (iii) .....
- (iv) .....
- (v) .....