

Centre Number	Candidate Number	Candidate Name
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NAMIBIA SENIOR SECONDARY CERTIFICATE

METALWORK AND WELDING ORDINARY LEVEL

6188/2

PAPER 2 PRACTICAL EXAMINATION

3 hours

Marks 50

2022

Additional Materials: As listed in Instructions to subject teachers.

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Write your Centre Number, Candidate Number and Name in the spaces at the top of this page and on all separate answer sheets used.
- Write in dark blue or black pen.
- You may use a soft pencil for any rough work, diagrams or graphs.
- You may use a non-programmable calculator.
- Do not use correction fluids.
- Do not write in the margin *For Examiner's Use*.
- You may use blank pages for working drawings or when answers are crossed out and corrected.
- The number of marks is given in brackets [] at the end of each question or part question.

For Examiner's Use	
Part A	
Part B	
Part C	
Total	

Marker	
Checker	

This document consists of **5** printed pages and **3** blank pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

Part: A

Learners should create a kiddies stool with square tube, mild steel sheet and flat bar that could be used for children to sit on outdoors.

1 State **one** type of possible joining method that could be used to attach the top to the frame..

.....
.....

[1]

2 List **two** suitable cutting tools that will be used in the manufacturing process.

.....
.....
.....
.....

[2]

3 List **one** safety precaution regarding tools/equipment when welding.

.....
.....

[1]

4 Name a suitable tool that will be used to remove sharp corners and edges.

.....
.....

[1]

[5]

Part: B

Practical (the making of the product/artefact)

Study the attached drawing and specifications carefully. Use square tubing, mild steel sheet, flat bar and the appropriate tools provided to make the kiddies stool.

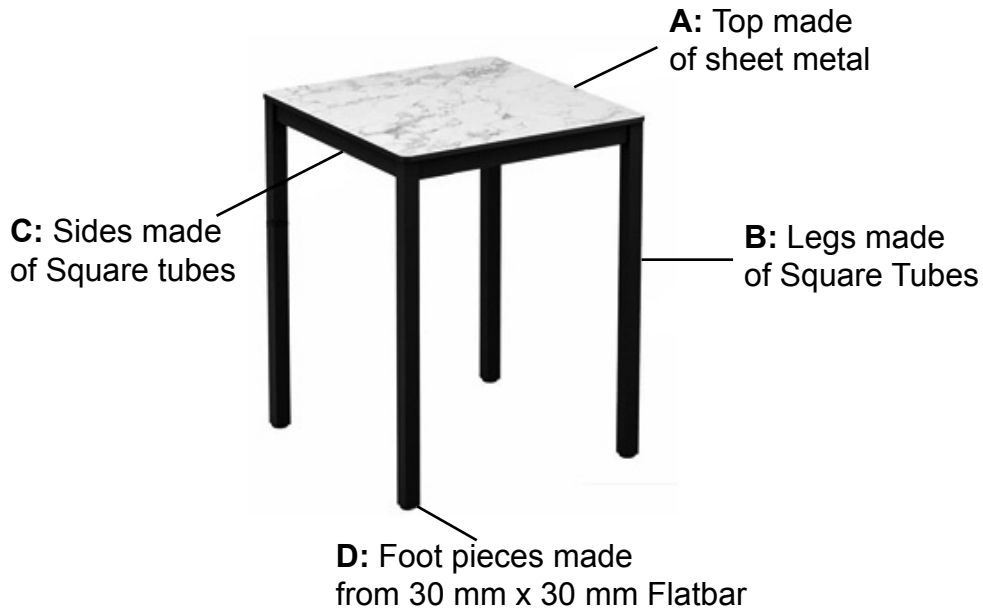


Fig. 1

Specifications

Materials per learner:

All dimensions are in (mm)

Quantity	Material	Dimensions
4 x	Square tube for the legs	L=350 x W=25x25 x 2
4 x	Square tube for the sides	L=180 x W=25x25x2
1 x	Mild steel sheet for the top:	L=230 x W=230 x2
4 x	Flat bar for the foot piece	L=30 x B=30 x =2

Tools needed:

- Hacksaw
- Measuring tape
- Engineers square
- Drill bits 2 mm to 18 mm
- Drill machine
- Angle Grinder with grinding and cutting disc
- Arc welding machine
- Scriber
- Pop rivet gun with pop rivets

Evaluation Indicators	Mark
Preparation of work pieces	10
Interpretation of drawings/specifications	5
Safe handling of tools and equipment	5
Proper use of tools and equipment	5
Safety precautions	5
Accuracy and quality of work/product	10
Total	40

Part: C

Reflection

1 (a) List **one** other material that could you have been used for the foot pieces of the stool if you did not have flat bar available?

.....
.....

[1]

(b) Mention **two** types of suitable finishing methods that could be applied to the stool.

.....
.....
.....
.....

[2]

(c) Explain the purpose of the foot pieces made of flat bar.

.....
.....
.....

[2]

[50]

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6188/2/22