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# basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

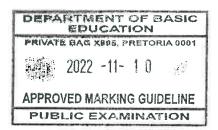
**GRADE 12** 

#### **ENGINEERING GRAPHICS AND DESIGN P1**

**NOVEMBER 2022** 

MARKING GUIDELINES

**MARKS: 100** 



These marking guidelines consist of 8 pages.

10 Nov 2022

AB

5

Ja W

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Please turn over

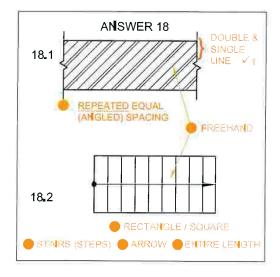
**ANSWERS** 

1	PROJECT NUMBER	1
2	MR N KEENAN	1
3	SITE PLAN	1
4	PRINTING	1
5	LISA B	1
6	15000	1
7	ARCHITECT and CLIENT / MR N KEENAN	2
8	2	1
9	RAINWATER DOWN-PIPE	1
10	E	1
11	4,57	1
12	NEW ✓ IRON / STEEL ✓	2
13	NORTH POINT	1
14	SWING / OPENING OF THE GATES	1
15	WATT METER / ELECTRICAL METER	1
16	FALL / GRADIENT / SLOPE / DROP	1
17	SOUTH WEST / SW	2
18		4
19	See below	3
20		3

AB



3 3 30



80

# ANSWER 19 Show ALL calculations. APPLYING CORRECT FORMULA

TOTAL

P = AB + BC + CD + DE

= AB + BC + CD + DE (- GATE)

= (24,23 + 8,37 + 18,38 + 31,2) - 3,6 = 78,58 \rightarrow ANSWER IN METRES \rightarrow

## ANSWER 20

Show ALL calculations.
APPLYING CORRECT FORMULA

 $A = L \times B$ 

 $= (10.8 \times 6) + (13.2 \times 6) + (6.7 \times 6.7)$ 

= 64.8 + 79.2 + 44.89

= 188<sub>-</sub>89√ m<sup>2</sup>

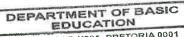
ANSWER IN SQUARE METRES AND m2 SHOWN

PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2022 MARKING GUIDELINES

DEPARTMENT OF BASIC

APPROVED MARKING GUIDELINE PUBLIC EXAMINATION

 $\times$ 



PRIVATE BAG X895, PRETORIA 0001



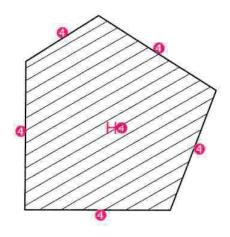
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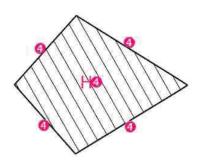


APPROVED MARKING GUIDELINE

PUBLIC EXAMINATION

TRUE SHAPE ANY RECOGNISED METHOD ✓4





5. NOTE ON CORRECT HATCHING DIFFERENT DIRECTIONS V5





ASSESSMENT CRITERIA			
4	TRUE SHAPE	6 ½	
5	CORRECT HATCHING	1	
SUBTOTAL			

PAPER 1 QUESTION 2 GRADE 12 NOVEMBER 2022 MARKING GUIDELINES

