

## SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

## **ENGINEERING GRAPHICS AND DESIGN P1**

2022

**MARKS: 100** 

These marking guidelines consist of 7 pages.

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ANSWERS					
1	884939		1		
2	1:1300		1		
3	PROJECT NUMBER		1		
4	MULLER ARCHITECTS		1		
5	DIRECTION OF OPENING		1		
6	RODDING EYE		1		
7	2000		1		
8	BUILDING LINE		1		
9	SEWERAGE LINE		1		
10	MUST BE DEMOLISHED/REMOVED		1		
11	BRICK PAVING		1		
12	ELECTRICITY METER / WATT METER		1		
13	PARKING FOR DISABLED PEOPLE		1		
14	18,28		2		
15	YELLOW		1		
16	18		2		
17	SOUTH EAST		2		
18			3		
19	See below		3		
20			4		
	ТОТ	AL	30		

## ANSWER 18 Show ALL calculations.

APPLYING CORRECT FORMULA

P = AB + BC + CD + DE + EF +FG + GA

= 117.7 + 13.7 + 115.1 + 8.3 +

88.3 + 39.7 + 102.8

= 485<u>.</u>6 √m

ANSWER IN METRES

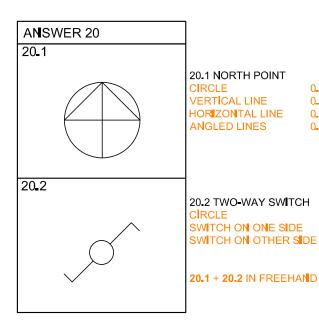
## ANSWER 19 Show ALL calculations. APPLYING CORRECT FORMULA

 $A = (15,4 \times 24,5) + (39,1 \times 48,0)$ 

 $+(6,0 \times 27,9)$ 

= 377,3 + 1876,8 + 167,4

= 2421,5 \( \sqrt{m}^2 \)



PAPER 1 QUESTION 1 GRADE 12 2022 MARKING GUIDELINES

0\_5

0.5

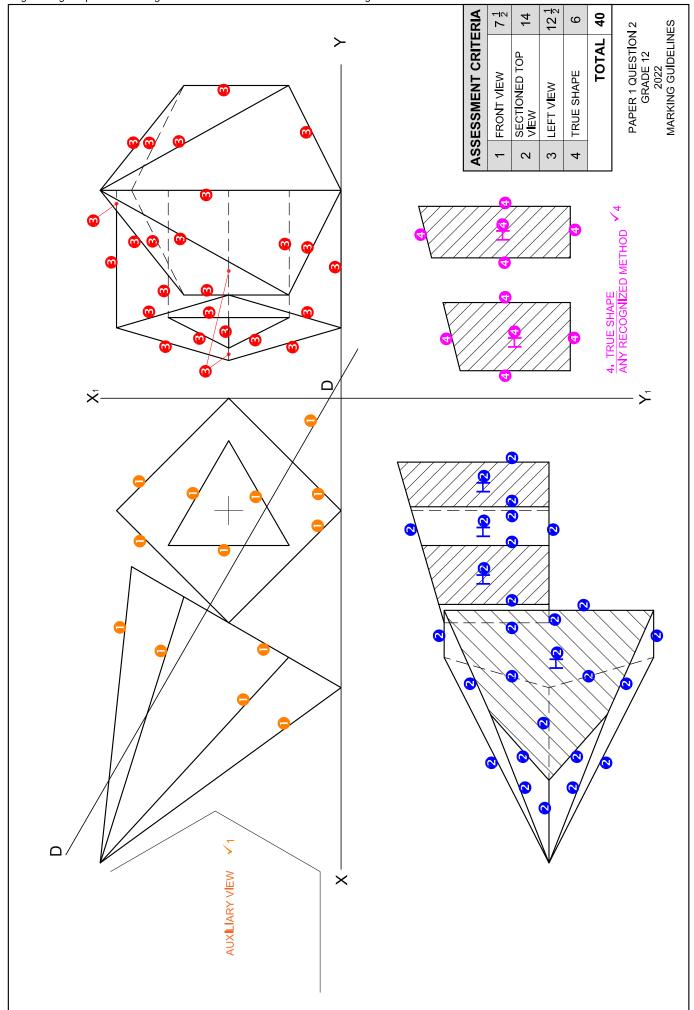
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0.5

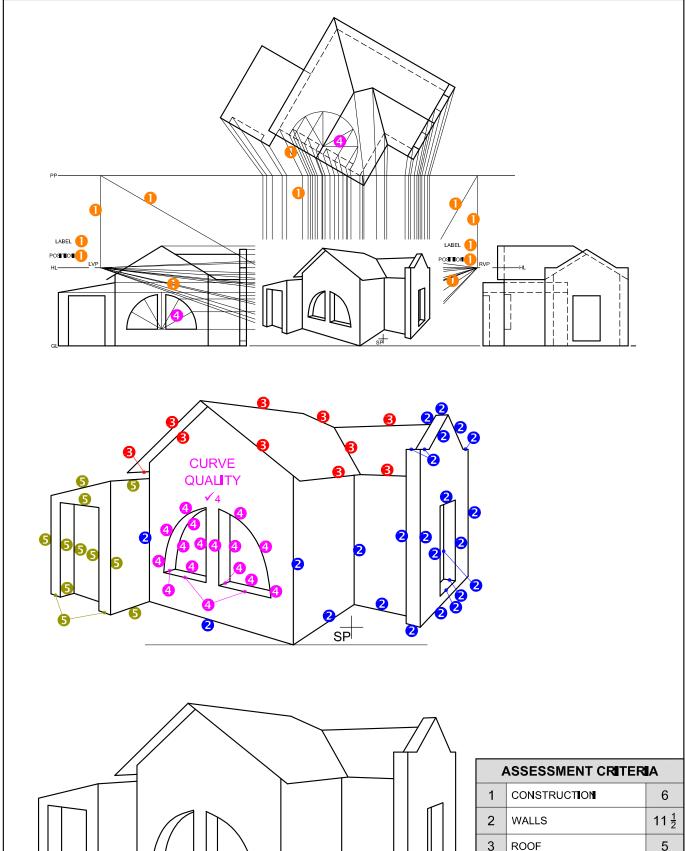
0.5

0.5

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ASSESSMENT CRITERIA						
1	CONSTRUCTION	6				
2	WALLS	11 ½				
3	ROOF	5				
4	WINDOWS	10				
5	GARAGE	$5\frac{1}{2}$				
	TOTAL	38				

PAPER 1 QUESTION 3 GRADE 12 2022 MARKING GU**I**DELINES

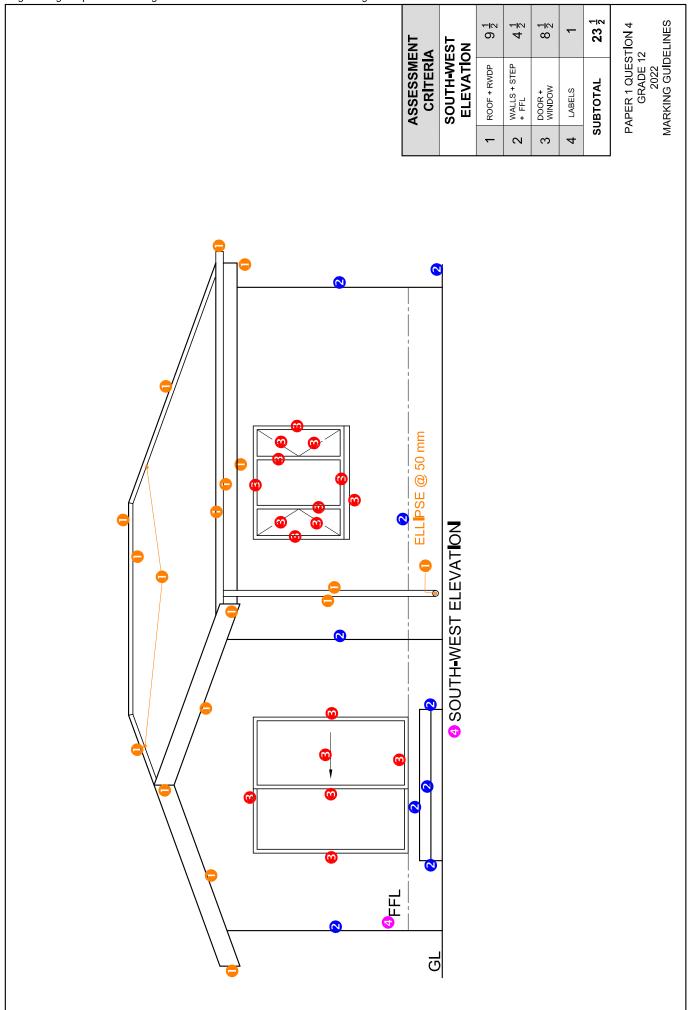
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SP

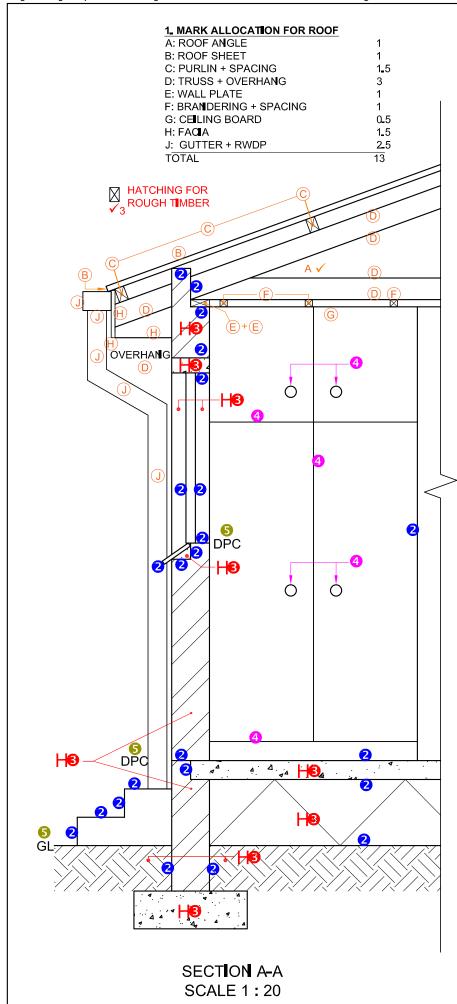
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ROOF LINE

RWDP



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ASSESSMENT CRITERIA						
DETAILED SECTION						
1	ROOF DETAIL	13				
2	SLAB + WALL + WINDOW + STEP	11 ½				
3	HATCHING	5 ½				
4	віс	$2\frac{1}{2}$				
5	LABELS	1 ½				
SUBTOTAL		34				

PAPER 1 QUESTION 4
GRADE 12
2022
MARKING GUIDELINES