

# SENIOR CERTIFICATE/ NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

# **ENGINEERING GRAPHICS AND DESIGN P1**

**NOVEMBER 2020** 

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 8 pages.

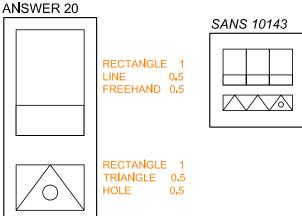
ANSWERS		
1	422-2019	1
2	(MR) A BOBANI	_1
3	2019-09-21	1
4	2	1
5	2	1
6	10810	1
7	INSPECTION CHAMBER	1
8	1,8	1
9	RE	1
10	RED	1
11	BUILDING LINE / BL	1
12	EARTH / LIGHTNING CONDUCTOR	1
13	DRAIN FIELD	1
14	1:30	1
15	NORTH WEST	2
16	4	2
17	14,89	2
18		3
19	See the title panel	3
20		4
	TOTAL	30

### ANSWER 18

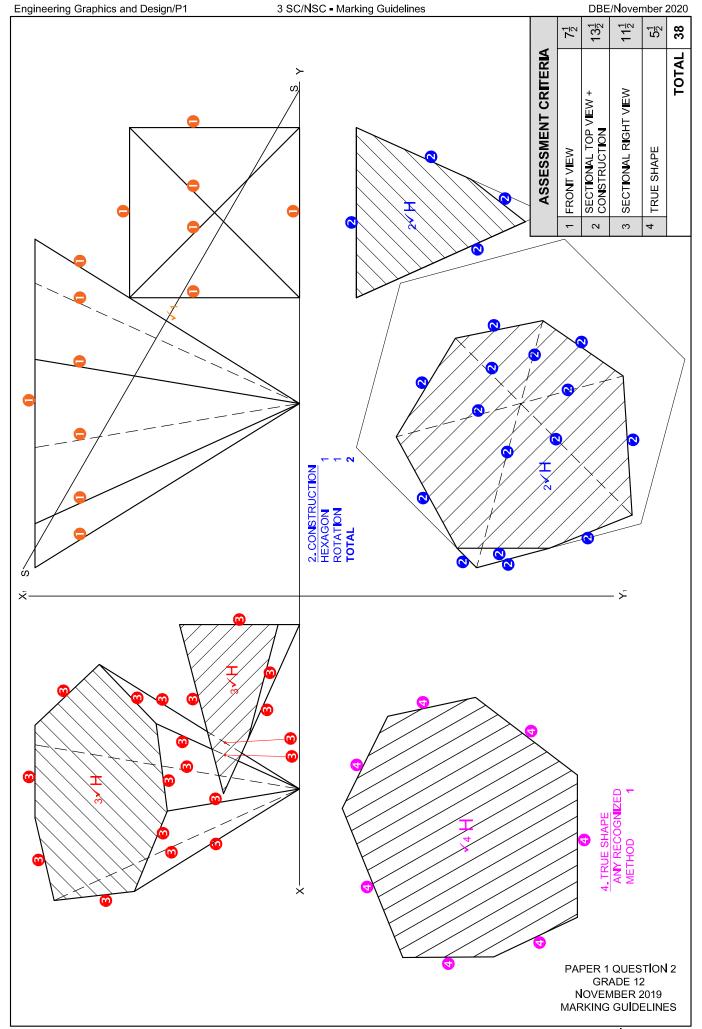
Perimeter = 
$$(59,50 + 23,45 + 61,15 + 37,5) = 3,5$$
  
=  $178,1\sqrt{m}$ 

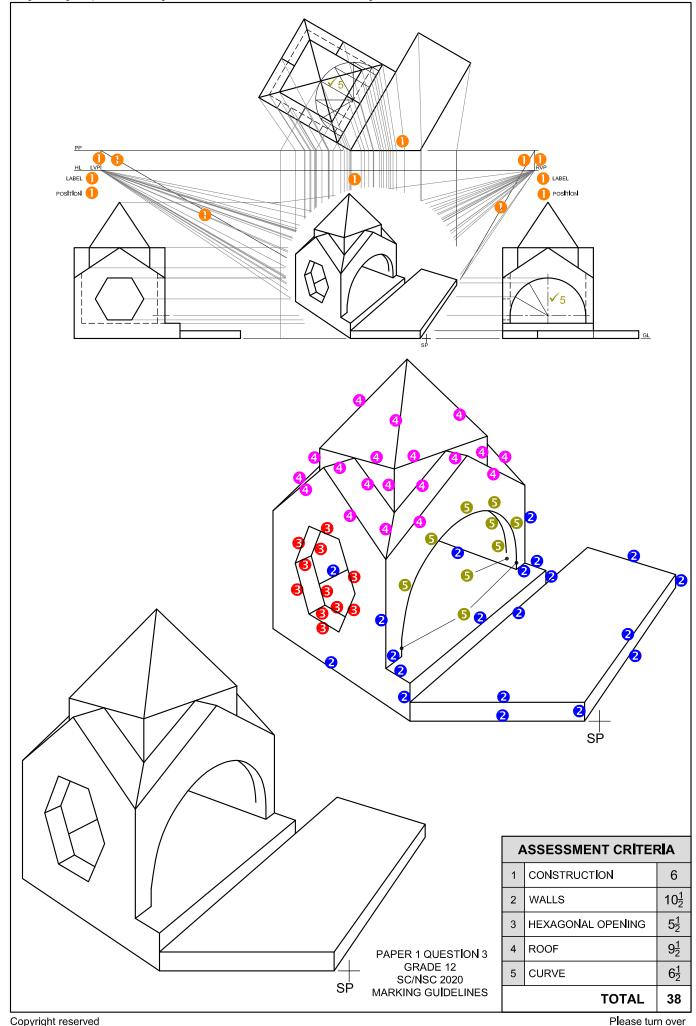
## ANSWER 19

$$\checkmark$$
 = FORMULA  
Area = (10 x 6) + (5,55 x 8,14) + (2,5 x 3,75)  
= 114,55  $\checkmark$  m<sup>2</sup>  $\checkmark$ 



PAPER 1 QUESTION 1 GRADE 12 SC/NSC 2020 MARKING GUIDELINE





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