

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V1

NOVEMBER 2016

MEMORANDUM

PUNTE: 100

Hierdie memorandum bestaan uit 7 bladsye.

ANTWOORDE			
1	2	1	
2	WILLIAM / "ON THE DOT ARGITEKTE"	1	
3	1:800	1	
4	VERNON	1	
5	NAT DRUKKERS	1	
6	0 / GEEN / NIE VANTOEPASSING	1	
7	2015-05-06	1	
8	2/3	1	
9	INSPEKSIEKAMER	1	
10	SWART	1	
11	KONTOERLYN	1	
12	MILLIMETER / mm / METRIES	1	
13	VERDIGTE HARDE PUIN	1	
14	ELEKTRIESE VEILIGHEIDSHEINING	2	
15	HEK-OOPMAAKRIGTING	1	
16	SERWITUUT	2	
17	STOORKAMER OOR DIE BOULYN	2	
18	369,14m [berekeninge 1, antwoord 1, meter 1]	3	
19	2184 m² [berekeninge 2, antwoord 1, metres² 1]	4	
20		3	
	TOTAAL	30	

ANTWOORD 18

Toon ALLE berekeninge.

L = 2 (L + B)

 $= (2 \times 74569) + (2 \times 116000) \checkmark 1$

= 149,138 + 232,000

= 381,138

= 381,138 - HEK

= 381,138 - 12,000

= 369,138 or 369,14 $\checkmark 1 \checkmark 1$

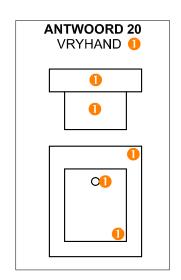
ANTWOORD 19

Toon ALLE berekeninge

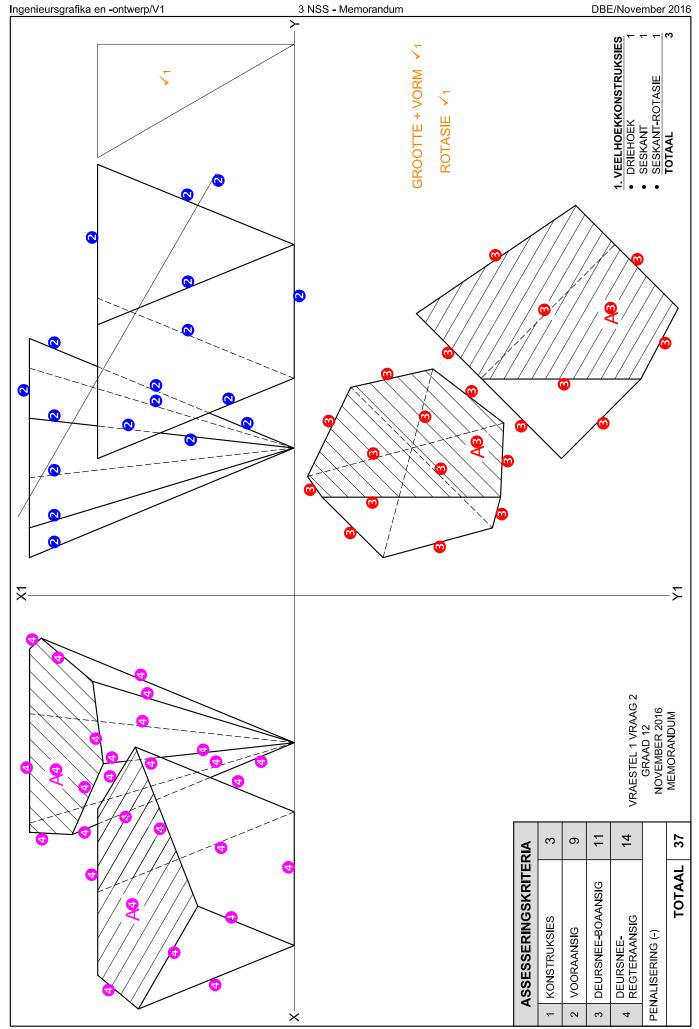
B A =9[(12,4 x 20) - (4 x 4)] + (12 x 8)
$$\sqrt{1}$$
 1 =9(248 - 16) + 96

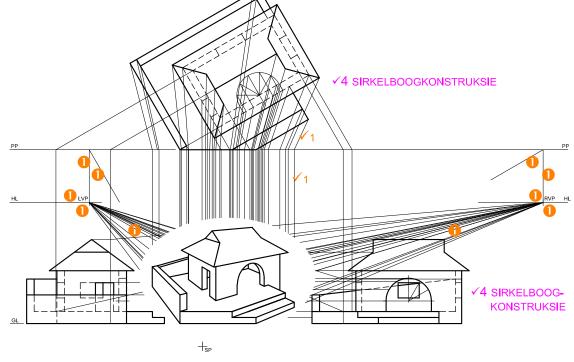
= 2088 + 96

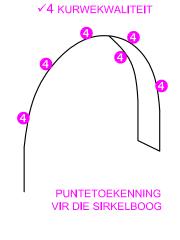
= 2184 m² 1 1

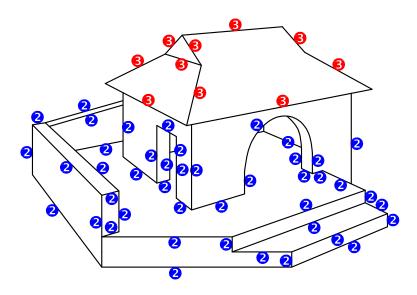


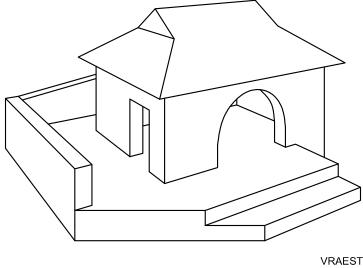
VRAESTEL 1 VRAAG 1 GRAAD 12 NOVEMBER 2016 MEMORANDUM











SP

VRAESTEL 1 VRAAG 3 GRAAD 12 NOVEMBER 2016 MEMORANDUM

ASSESSERINGSKRITERIA		
1	KONSTRUKSIES + VP'e	7
2	MURE + DEURE	22
3	DAK	5
4	SIRKELBOOG	6
ΤΟΤΑΔΙ		40

