

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

FEBRUARY/MARCH 2016

MEMORANDUM

MARKS: 100

This memorandum consists of 7 pages.

	ANSWERS		
1	2	1	
2	031 5836092	1	
3	REPLACE FUEL TANKS	1	
4	5 500	1	
5	IBR	1	
6	4	1	
7	3	1	
8	DEMOLISH/REMOVE	1	
9	RAMP	1	
10	BLUE	1	
11	NO COLOUR	1	
12	GULLEY	1	
13	ADJACENT BUILDING/STRUCTURE	1	
14	EAST	2	
15	SPEED UP DRAWING PROCESS/ STANDARDISATION OF PRESENTATION	2	
16	SCALE	1	
17	271,3 m	2	
18	82,28 m [calculation 1, answer 1, converted to metres 1]	3	
19	318,2179 m² [calculation 1, answer 1, metres² 1]	3	
20	See below	4	

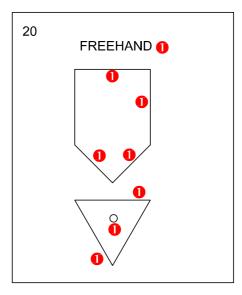
TOTAL: 30

ANSWER 18 Show ALL calculations.

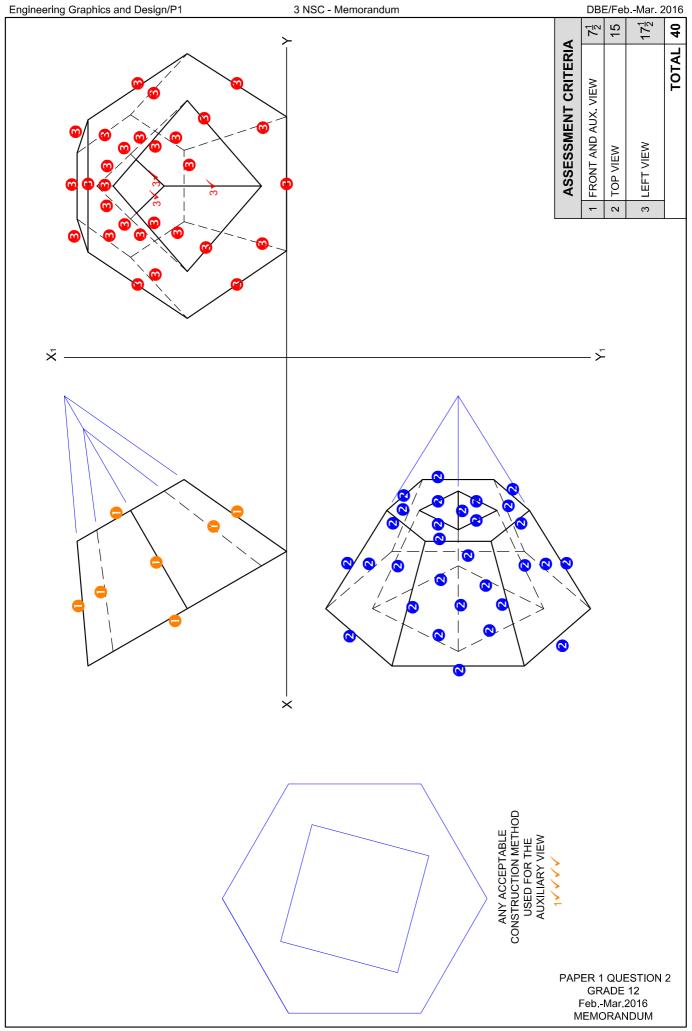
20,57 + 6,545 + 7,48 + 6,545 + 28,05 + 13,09 = 82,28 m

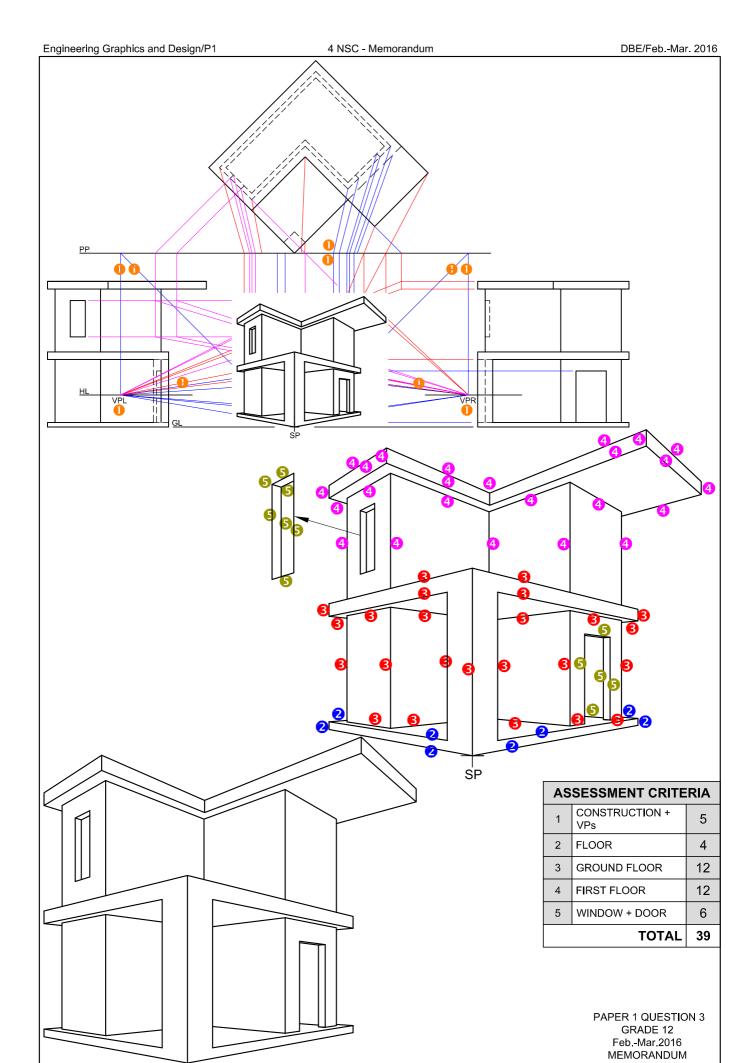
ANSWER 19 Show ALL calculations.

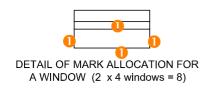
(20,57 x 13,09) + (6,545 x 7,48) 269,2613 + 48,9566 318,2179 m²



PAPER 1 QUESTION 1 GRADE 12 Feb.-Mar. MEMORANDUM

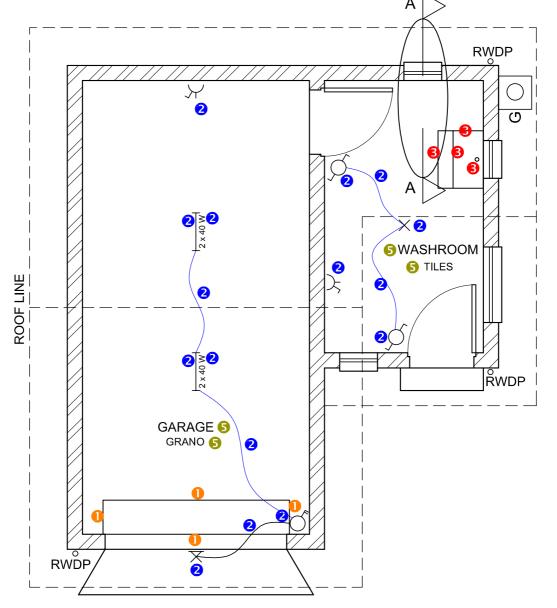








DETAIL OF MARK ALLOCATION FOR A DOOR (1 x 2 doors = 2)



FLOOR PLAN SCALE 1:50

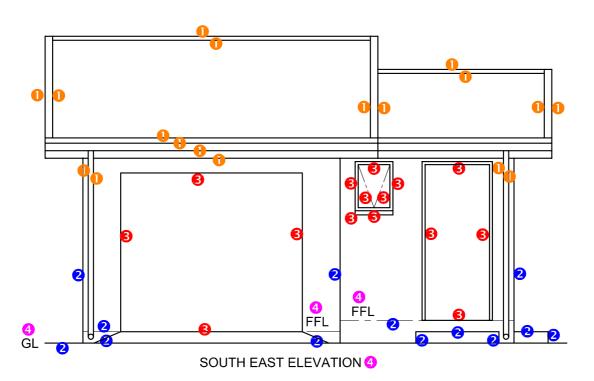
ASSESSMENT CRITERIA FLOOR PLAN

FLOOR FLAN			
1	DOORS + WINDOWS	12	
2	ELECTRICAL	8	
3	FIXTURES	2	
4	HATCHING	4	
5	LABELS	2	
S	UBTOTAL	28	

4 HATCHING ALLOCATION

SANS COMPLIANT (TYPE) 2
HATCHING CORRECTLY APPLIED 2
TOTAL 4

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ASSESSMENT CRITERIA SOUTH EAST ELEVATION 1 ROOF + RWDP 9 WALLS + FFL + GULLEY + STEP + RAMP $6\frac{1}{2}$ 2 DOOR + WINDOW $7\frac{1}{2}$ 3 LABELS 2 25 **SUBTOTAL**

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