



# basic education

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Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**ENGINEERING GRAPHICS AND DESIGN P1**

**NOVEMBER 2011**

**MEMORANDUM**

**MARKS: 100**

**This memorandum consists of 5 pages.**

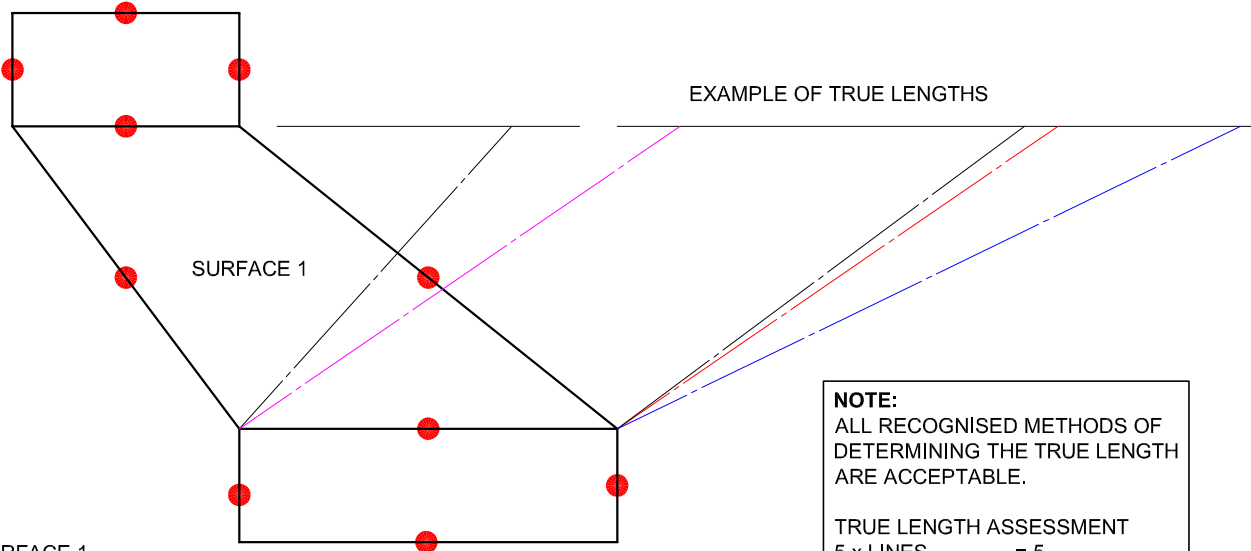
<b>ANSWERS</b>		
1	7	1
	2	1
	10	1
	4	1
	9	1
	3	1
	1	1
	6	1
	8	1
	5	1
2	2/08	1
3	ROCKY ROAD	1
4	SEWER LINE	1
5	ROAD	1
6	UNIT/BUILDING/SUITE/CONSULTING ROOM 9	1
7	BRICK PAVING/WALKWAY	1
8	BUILDING LINE	1
9	4	1
10	10	1
11	A (1558,2)	2
12	456,6 m [calculation 1, answer 1, metres 1]	3
13	12916,8 m <sup>2</sup> [calculation 1, answer 1, metres <sup>2</sup> 1]	3
14		3

**TOTAL: 30**

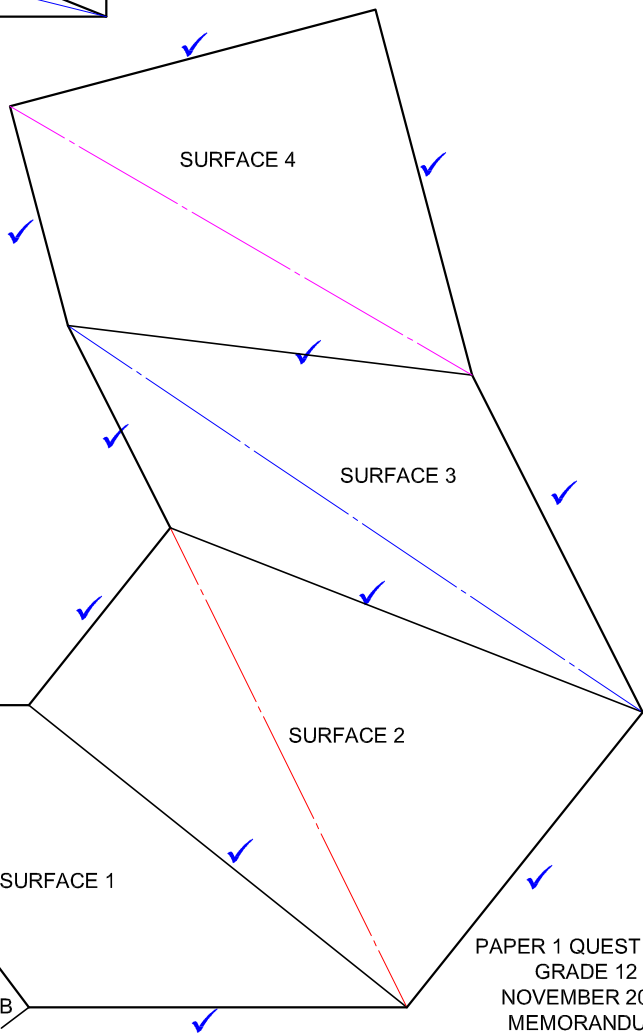
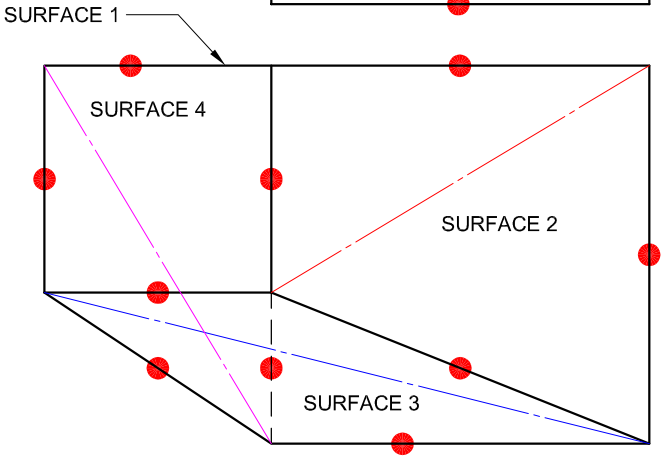
14

FREEHAND ✓

CIRCLE    1  
ARROW    1

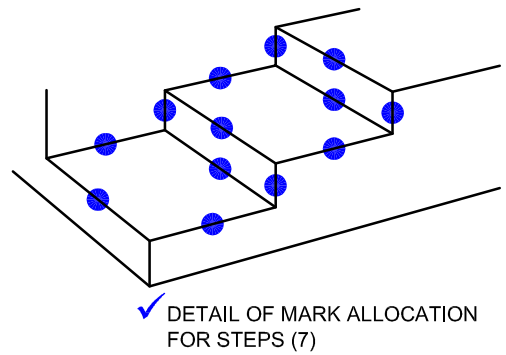
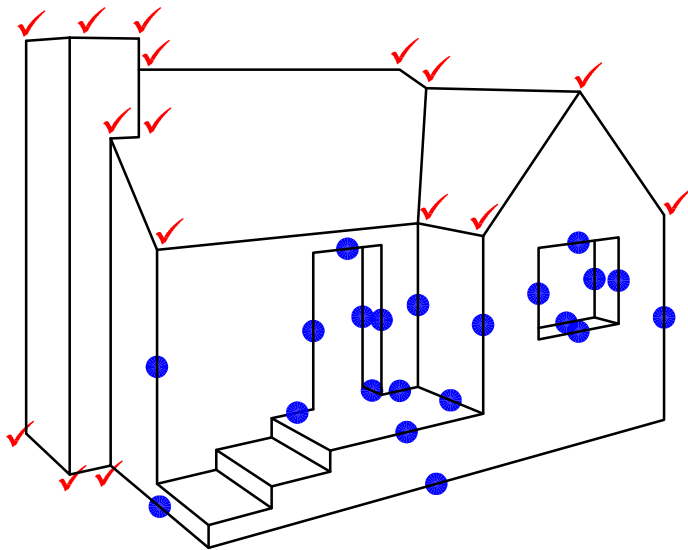
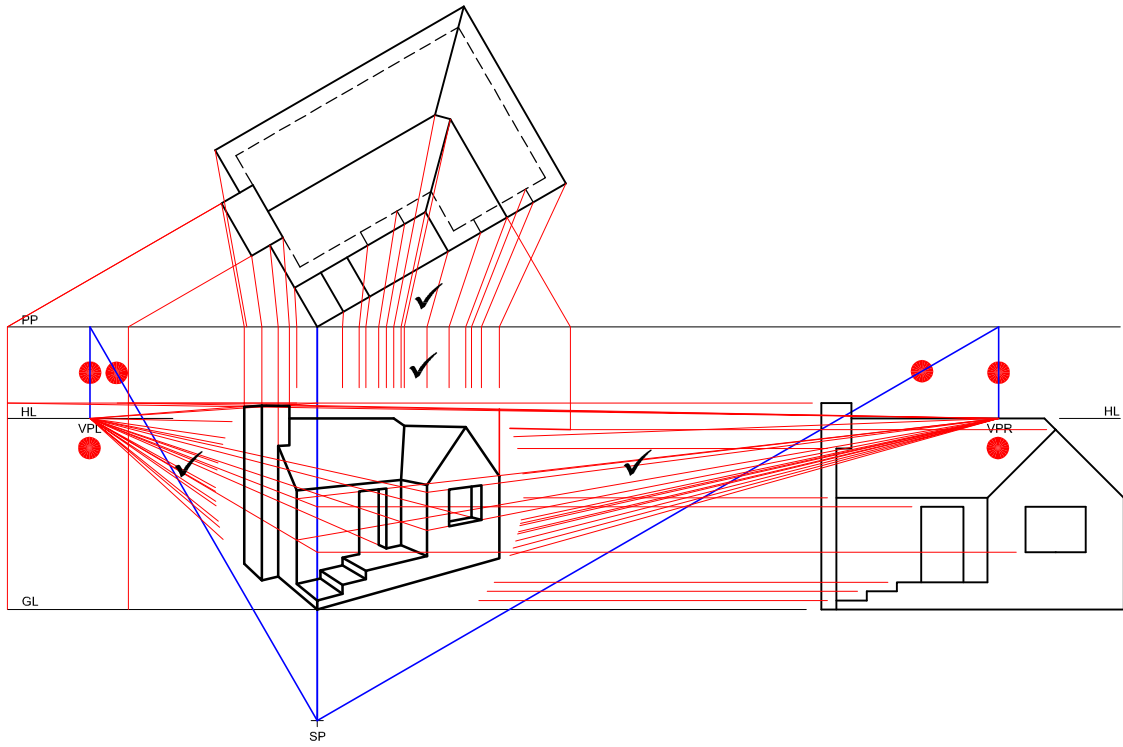


TRUE LENGTH ASSESSMENT  
 5 x LINES = 5  
 5 x METHOD = 5  
 10

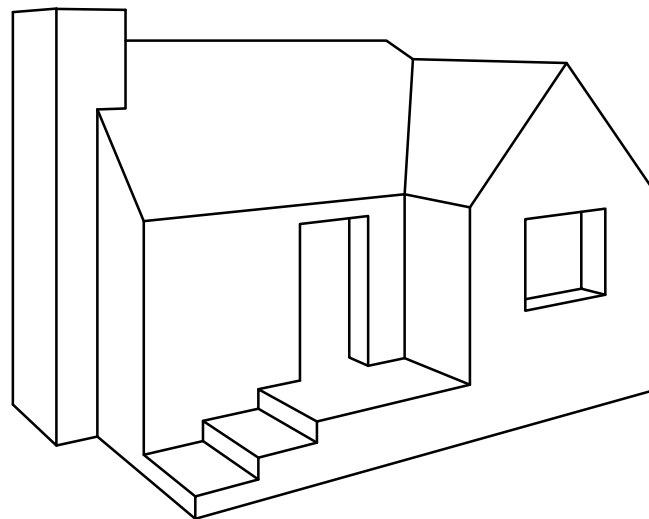


ASSESSMENT CRITERIA	
FRONT VIEW + TOP VIEW	10
TRUE LENGTH + METHOD	10
DEVELOPMENT	14
<b>TOTAL</b>	<b>34</b>

PAPER 1 QUESTION 2  
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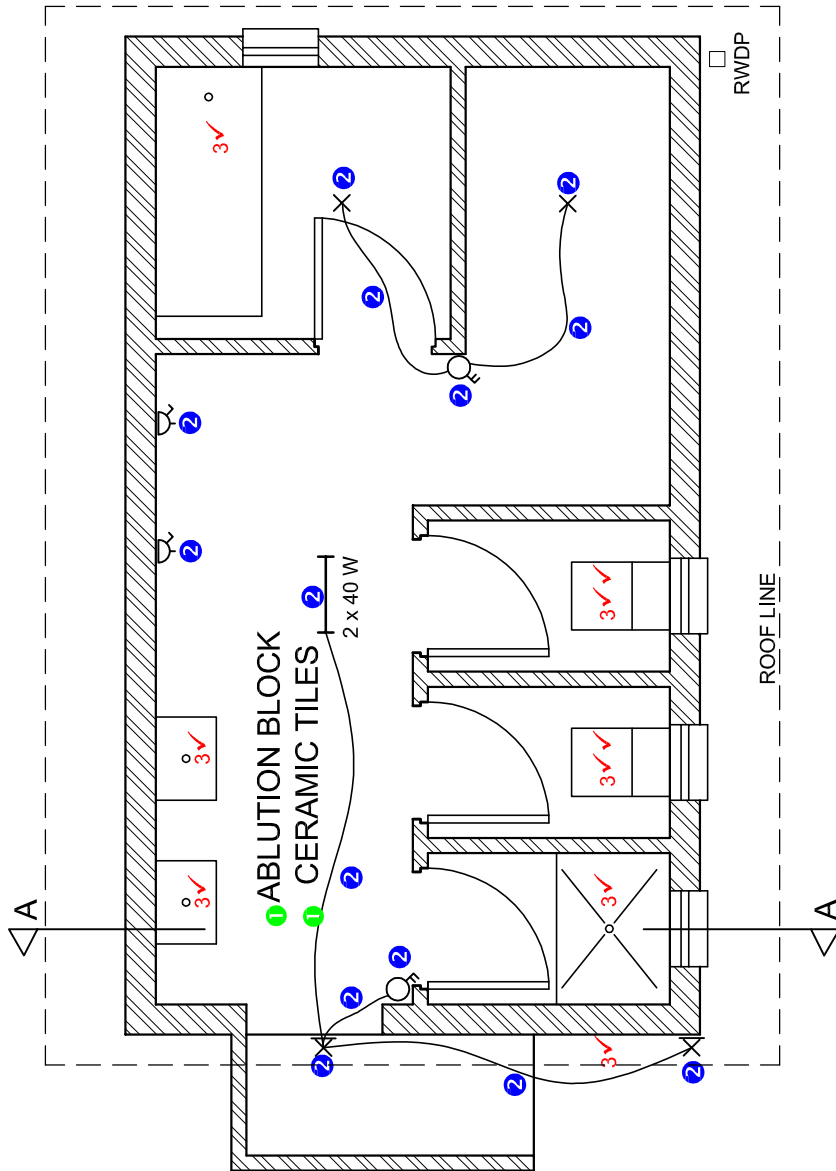


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SP

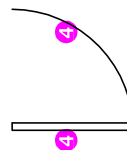


ASSESSMENT CRITERIA	
CONSTRUCTION + VPs	7
BUILDING	18
ROOF + CHIMNEY	16
<b>TOTAL</b>	<b>41</b>

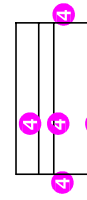
PAPER 1 QUESTION 3  
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1 PLAN  
1 SCALE 1 : 50

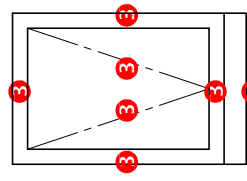
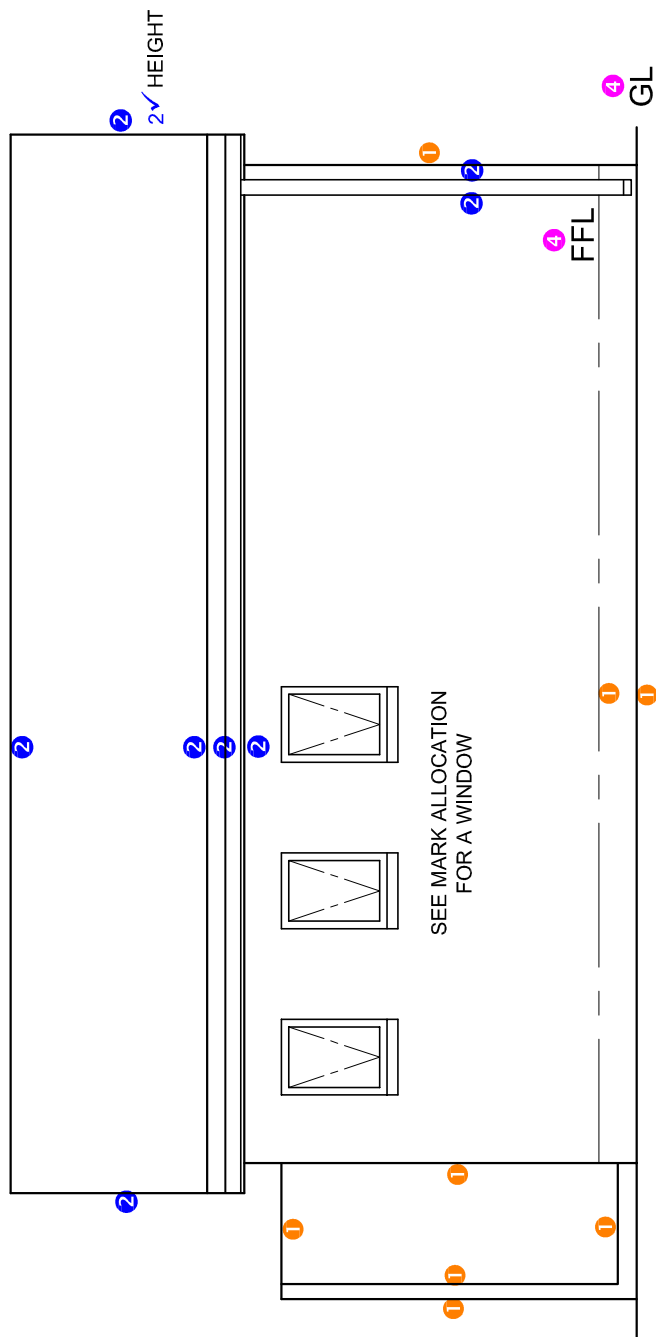


DETAIL OF MARK ALLOCATION FOR A DOOR (1 x 4 doors = 4)



DETAIL OF MARK ALLOCATION FOR A WINDOW (2 1/2 x 4 windows = 10)

FLOOR PLAN	
1	LABELS 2
2	ELECTRICAL 7
3	FIXTURES 8
4	DOORS + WINDOWS 14
<b>SUBTOTAL 31</b>	



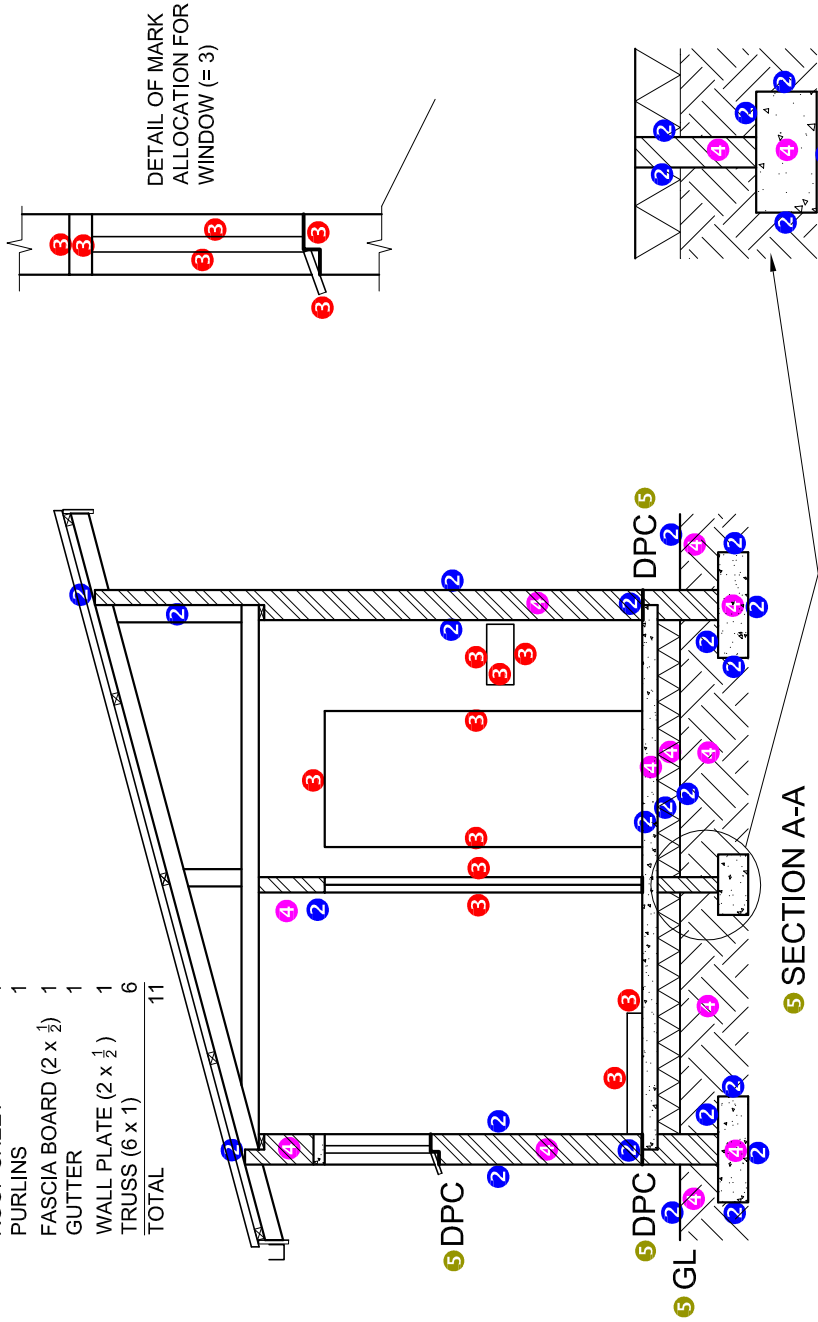
DETAIL OF MARK ALLOCATION FOR A WINDOW  
(3½ per window x 3 windows = 10½)

4 NORTH ELEVATION

NORTH ELEVATION		
1	WALLS + FFL	4
2	ROOF + FASCIA + GUTTER + RWD/P	5
3	WINDOWS	10½
4	LABELS	1½
<b>SUBTOTAL</b>		<b>21</b>

**MARK ALLOCATION**

ROOF SHEET	1
PURLINS	1
FASCIA BOARD (2 x 1/2)	1
GUTTER	1
WALL PLATE (2 x 1/2)	1
TRUSS (6 x 1)	6
<b>TOTAL</b>	<b>11</b>



SECTIONAL ELEVATION		
1	ROOF	11
2	WALLS + FLOOR + FOUNDATION	14 1/2
3	WINDOW + DOORS + FIXTURES	8
4	HATCHING	7
5	LABELS	2 1/2
<b>SUBTOTAL</b>		<b>43</b>