

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2015

MEMORANDUM

MARKS: 100

This memorandum consists of 7 pages.

	ANSWERS	
1	AFSP-2015	1
2	2	_1
3	1	_1
4	MRS SCHUTTE	_1
5	2015-02-13	1
6	2	1
7	INSPECTION CHAMBER	1
8	DIRECTION OF FLOW	1
9	TREE	1
10	RED	1
11	CONTOUR LINE	1
12	DEMOLISH/REMOVE	1
13	30,25 m	1
14	4 700 mm	1
15	3 m	2
16	SOUTH-WEST	2
17	ELECTRICAL SUBSTATION	2
18	72 m [calculation 1, answer 1, converted to metres 1]	3
19	248m² [calculation 1, answer 1, metres² 1]	3
20	See below	4

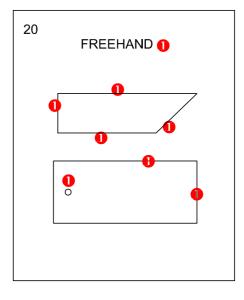
TOTAL 30

ANSWER 18 Show ALL calculations.

13 + 6 + 6 + 6 + 3 + 8 + 10 + 20 = 72 m

ANSWER 19 Show ALL calculations.

$$\begin{array}{rcl} 13 \times 6 & = 78 \\ 6 \times 7 & = 42 \\ 10 \times 8 & = 80 \\ \underline{8 \times 6} & = 48 \\ \underline{248} \text{ m}^2 \end{array}$$



PAPER 1 QUESTION 1 GRADE 12 November 2015 MEMORANDUM

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