

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

## **ENGINEERING GRAPHICS AND DESIGN P1**

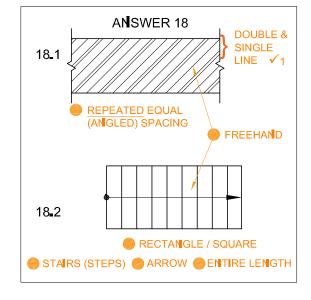
**NOVEMBER 2022** 

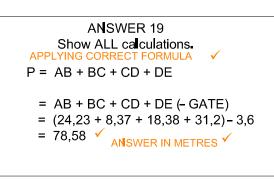
MARKING GUIDELINES

**MARKS: 100** 

These marking guidelines consist of 8 pages.

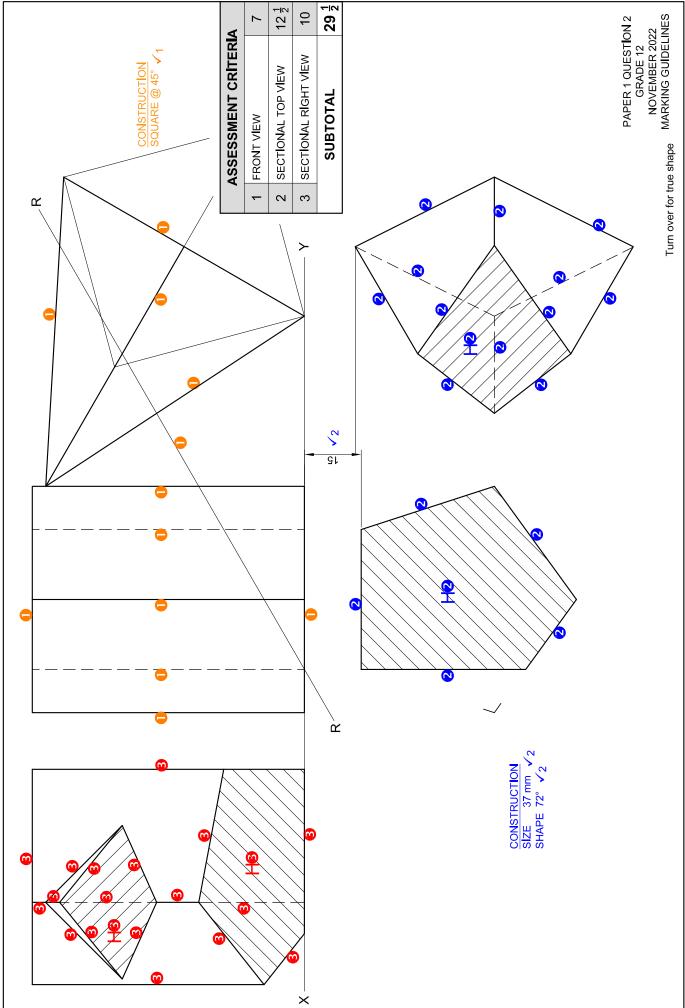
ANSWERS				
1	PROJECT NUMBER	1		
2	MR N KEENAN	1		
3	SITE PLAN	1		
4	PRINTING	1		
5	LIISA B	1		
6	15000	1		
7	ARCHITECT and CLIENT / MR N KEENAN	2		
8	2	1		
9	RAINWATER DOWN-PIPE	1		
10	E / SOUTH / TOP LEFT	1		
11	4,57	1		
12	NEW ✓ IRON / STEEL ✓	2		
13	NORTH POINT	1		
14	SWING / OPENING OF THE GATES	1		
15	WATT METER / ELECTRICAL METER	_		
16	FALL / GRADIENT / SLOPE / DROP	1		
17	SOUTH WEST / SW	2		
18		4		
19	See below	3		
20		3		
	TOTAL	30		



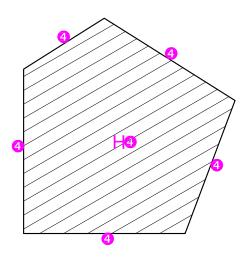


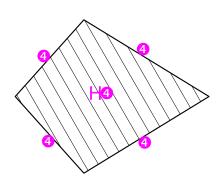
## ANSWER 20 Show ALL calculations. APPLYING CORRECT FORMULA $\checkmark$ $A = L \times B$ $= (10.8 \times 6) + (13.2 \times 6) + (6.7 \times 6.7)$ = 64.8 + 79.2 + 44.89 $= 188.89 \checkmark m^{2}$ ANSWER IN SQUARE METRES AND $m^{2}$ SHOWN

PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2022 MARKING GUIDELINES



## TRUE SHAPE ANY RECOGN∎SED METHOD ✓4





 $\frac{\text{5. NOTE ON CORRECT HATCHING}}{\text{DIFFERENT DIRECTIONS}} \checkmark 5$ 

	ASSESSMENT CRITERIA		
4	TRUE SHAPE	$6\frac{1}{2}$	
5	CORRECT HATCHING	1	
	SUBTOTAL	7 ½	

PAPER 1 QUESTION 2 GRADE 12 NOVEMBER 2022 MARKING GUIDELINES

