

JUNE EXAMINATION GRADE 12 2024

ENGINEERING GRAPHICS AND DESIGN PAPER 1

MARKS:100

TIME: 3 Hours

QUESTIONS		ANSWERS		
1	What scale is indicated for the site plan?	1:400	1	
2	In which city can the architectural company be found?	NEW YORK	1	
3	Name the company that printed the site plan?	HAWKEYE	1	
4	Who is the client?	T STARK	1	
5	What is the project number?	EGD2024P1-GDE	1	
6	What is the first revision?	ADDED A LEGEND	1	
7	What does the symbol at 1 indicate?	DIRECTION OF NORTH	1	
8	What is the width of Marvel Street in metres?	6	1	
9	Name the feature at 2.	CONTOUR LINE	1	
10	Which corner is the lowest corner on STAND 24?	В	1	
11	What does the abbreviation IC stand for?	INSPECTION CHAMBER	1	
12	How many palm trees are on STAND 24?	4	1	
13	Name the feature at 3.	WATT/ELECTRICAL METER	1	
14	What do the arcs at 4 indicate?	GATE SWING	1	
15	What does the dimension at 5 indicate?	HEIGHT ABOVE SEA LEVEL	1	
16	With regards to the building regulations, why would the proposed new extension NOT be accepted?	OVER THE BUILDING LINE	1	
17	What natural feature is south of STAND 24?	RIVER	1	
18	What does the arrow on the municipal sewer line indicate?	DIRECTION FLOW	2	
19	Why can nothing be built on the STAND next to boundary AB?	SERVITUDE	2	
20	In the space below (ANSWER 20), determine the perimeter of stand 24 in metres.		3	
21	In the space below (ANSWER 21), determine the total area of the existing building in square meters.		3	
22	In the space in the title panel (ANSWER 22), draw, in neat freehand, the elevation and plan of the <i>SANS 10143</i> graphical symbol for a wall-mounted URINAL.		3	
TOTAL			30	

ANSWER 20:
SHOW ALL
CALCULATIONS.

APPLYING THE
CORRECT
FORMULA
AB + BC + CD + DE+ EA
25 + 14.142 + 30 +
35 + 40
=144.142 ✓

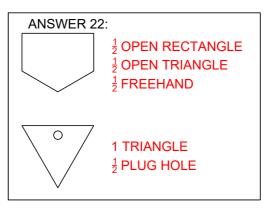
CONVERTED TO
METERS

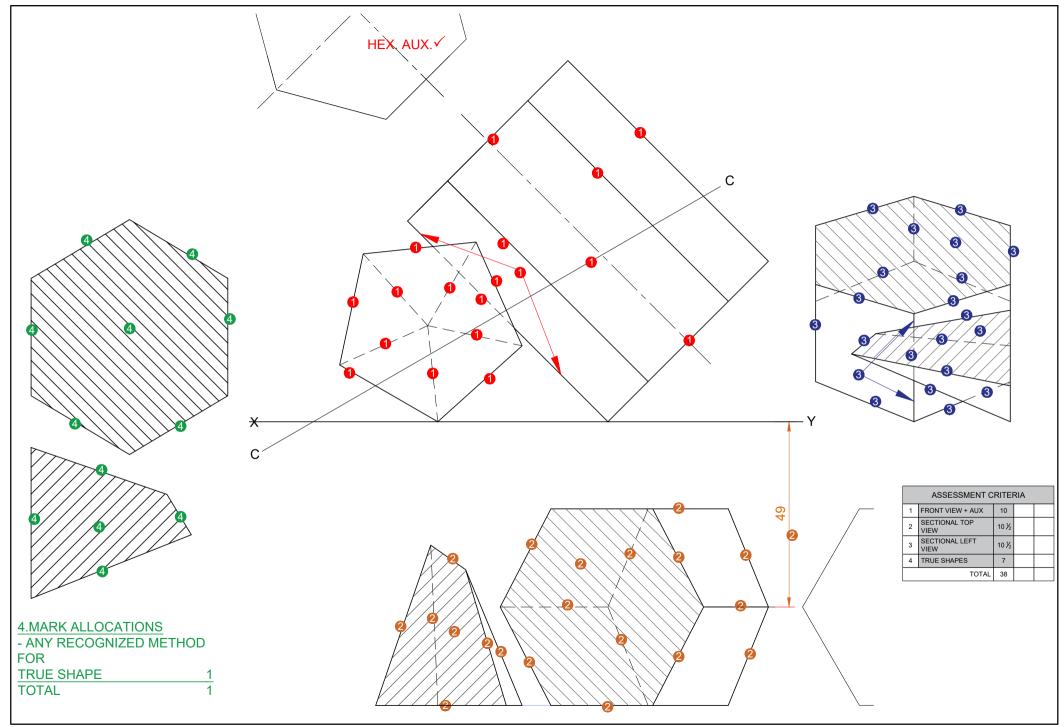
ANSWER 21:
SHOW ALL CALCULATIONS.
APPLYING THE CORRECT FORMULA

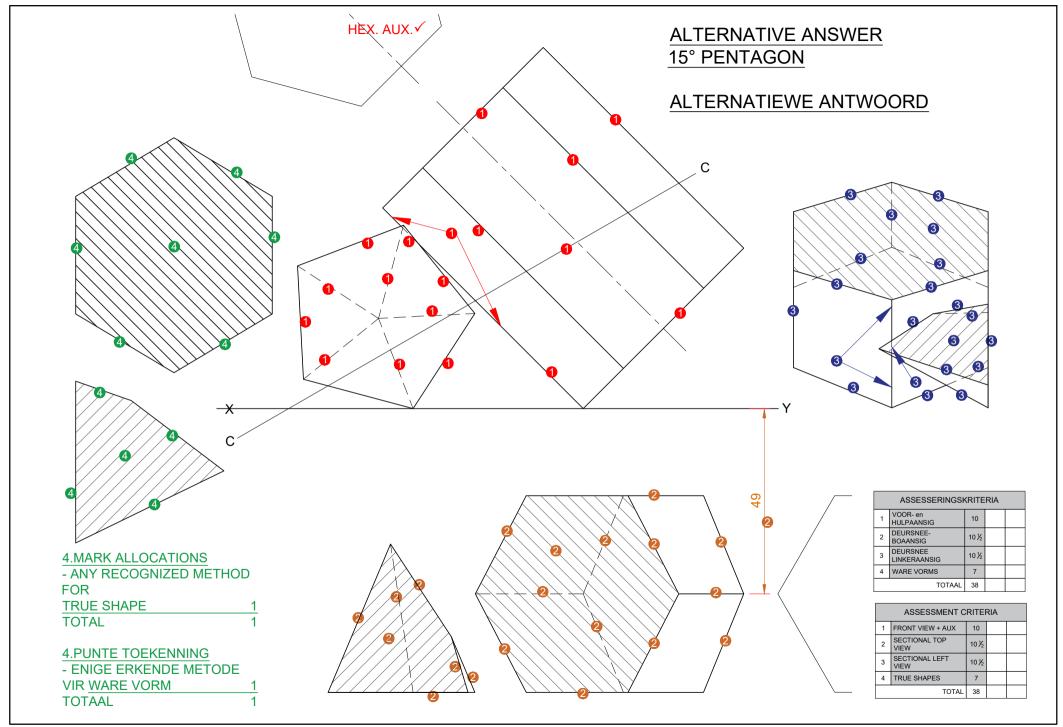
(18 x 15) - (11,5 x 1.5) - (7 x 4,55)

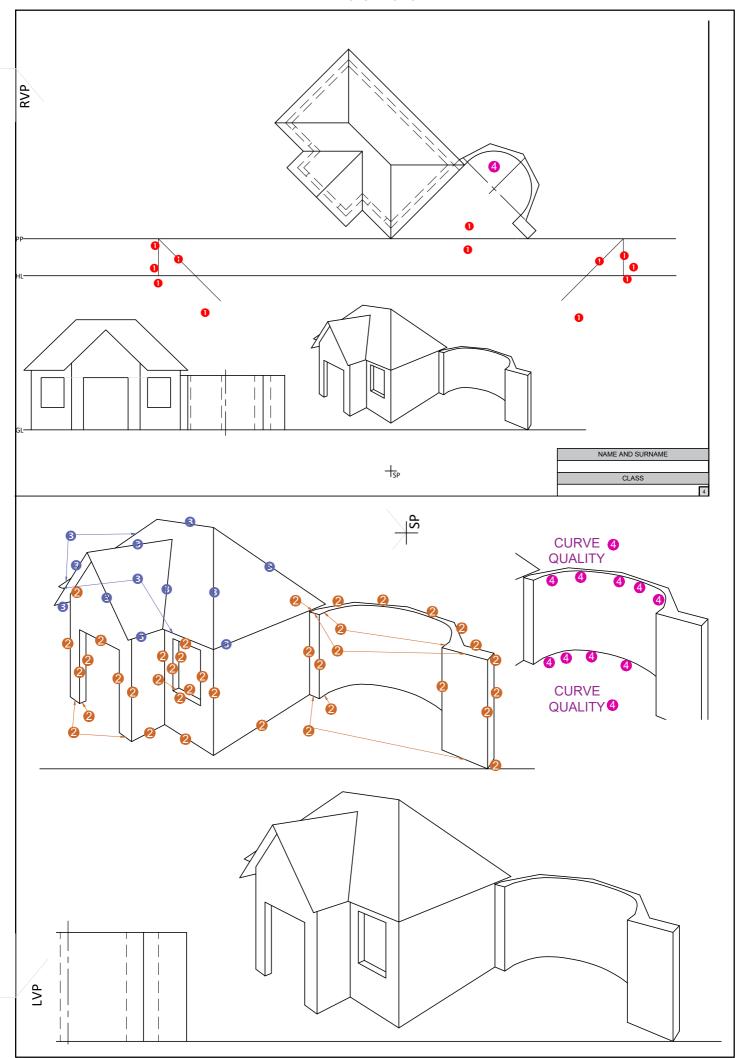
= 220.9m²

CONVERTED TO METERS SQUARED









G - GRADE 12 JUNE EXAM 2024

