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**SA EXAM
PAPERS**



**ISEBE LEMFUNDO LEMPUMA KOLONI
EASTERN CAPE EDUCATION DEPARTMENT
OOS-KAAP ONDERWYSDEPARTEMENT**

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V2

SEPTEMBER 2020

**VOORBEREIDINGS EKSAMEN
NASIENRIGLYNE**

PUNTE: 200

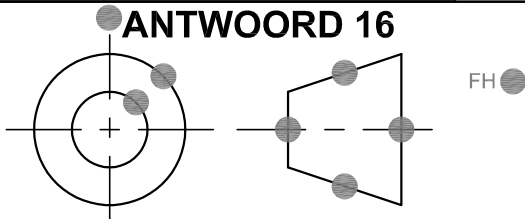
TYD: 3 uur

Die nasienriglyne bestaan uit 6 bladsye.

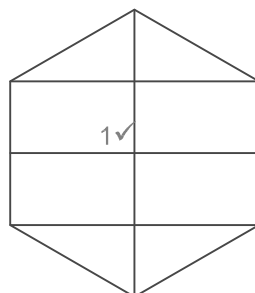
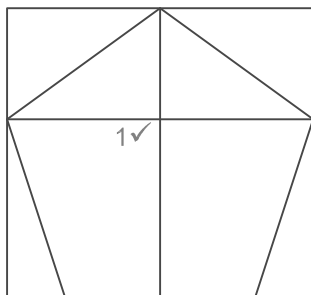
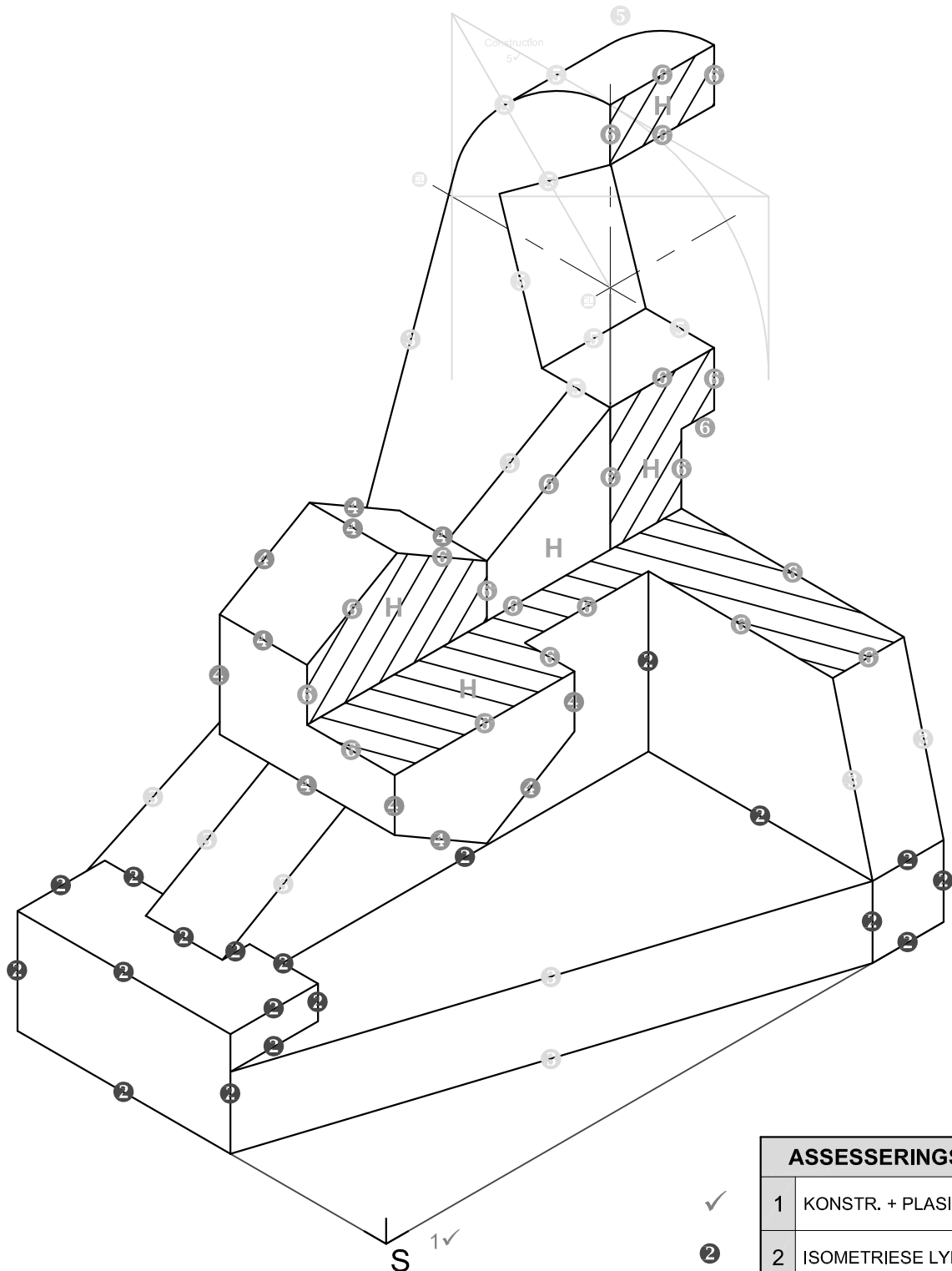
Kopiereg voorbehou

VRAAG 1: ANALITIES (MEGANIES)

ANTWOORDE		
1	AMATHOLE	1
2	043 7640 488	1
3	120	1
4	REDDY	1
5	VSK Ø3 GAT IN STAAF	1
6	VERSINK	1
7	OLIE GAT (SMEERMIDDEL)	1
8	VIERKANT	1
9	BRONS	1
10	14	1
11	BO-AANSIG	2
12	VOLSNIT	2
13	HALFSNIT	2
14	GEWENTELDE SNIT	1
15	Ø5	2
	Ø6	2
	Ø2	2
	$25 + 195 + 15 = 235$	2
16		4
TOTAAL		29

ANTWOORD 16 		
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VRAAG 3: ISOMETRIES



✓

2

3

4

5

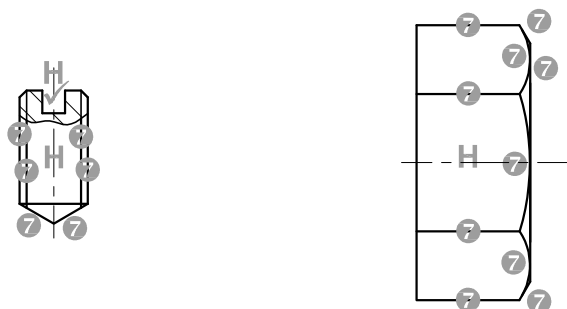
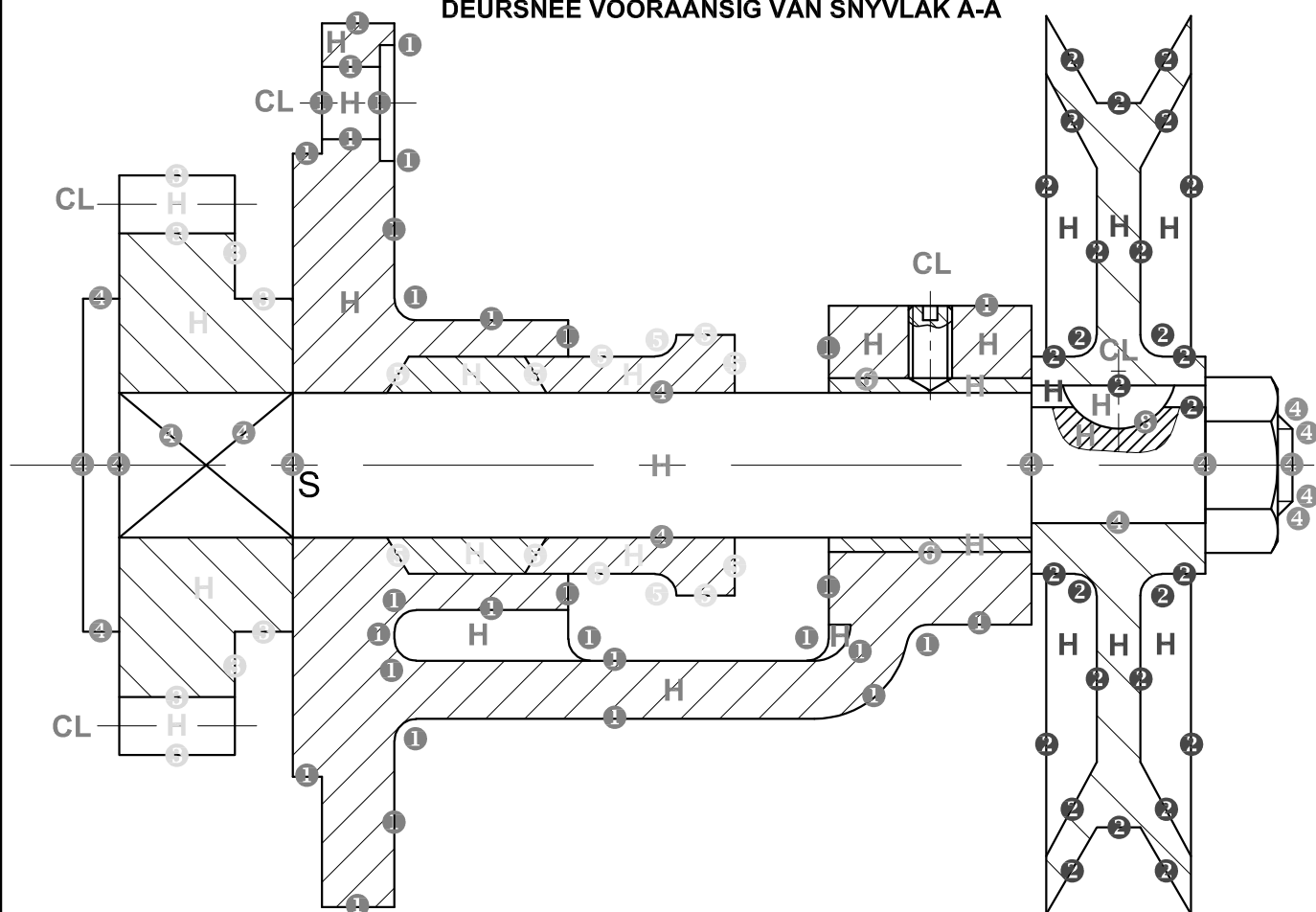
6

H

ASSESSERINGSKRITERIA

1	KONSTR. + PLASING	3
2	ISOMETRIESE LYNE	9½
3	WEB	4½
4	SESHOEK	5½
5	SIRKEL + VYFHOEK	6
6	SNYVLAK + ARSERING	13½
TOTAAL		42

4

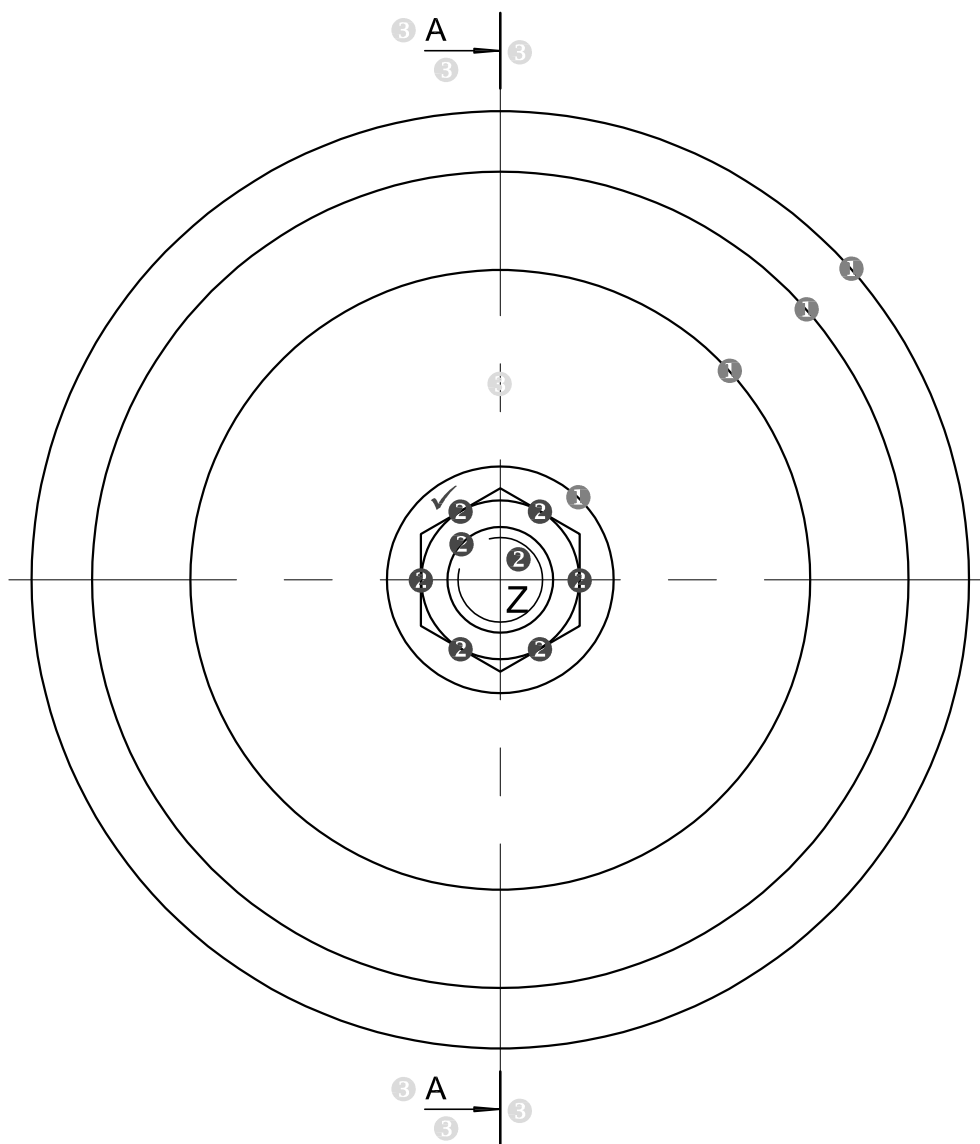
VRAAG 4: MEGANIESE SAMESTELLING**DEURSNEE VOORAANSIG VAN SNYVLAK A-A****ASSESSERINGSKRITERIA****DEURSNEE VOORAANSIG**

① H	1	HULS	20
② H	2	KATROL	17 $\frac{1}{2}$
③ H	3	RAT	6
④ H	4	AS	9 $\frac{1}{2}$
⑤ H	5	STUT + PAKSTUK	8
⑥ H	6	BUS	2
⑦ H	7	M14-MOER + GRYPKROEF	10 $\frac{1}{2}$
⑧ H	8	SPY	1
CL	9	SENTERLYNE	2 $\frac{1}{2}$
	10	SAMESTELLING	4 $\frac{1}{2}$
SUB-TOTAAL			81$\frac{1}{2}$

5

VRAAG 4: MEGANIESE SAMESTELLING

REGTERAANSIG



ASSESSERINGSKRITERIA			
REGTERAANSIG			
①	1	KATROL	2
✓ ②	2	M14-MOER	5
③	3	SNYVLAK	3½
SUB-TOTAAL			10½
			6