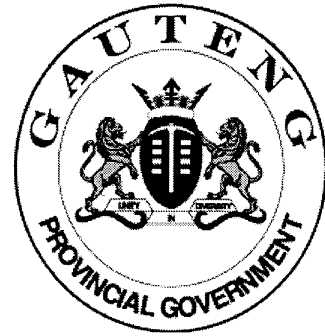


**SENIOR CERTIFICATE
EXAMINATION
*SENIORSERTIFIKAAT-EKSAMEN***



**OCTOBER / NOVEMBER
*OKTOBER / NOVEMBER***

2005

**TECHNICAL DRAWING
*TEGNIESE TEKENE***

**Second Paper : Drawings
*Tweede Vraestel : Tekene***

HG

711-1/2

**Cover + 6 pages
*Voorblad + 6 bladsye***

TECHNICAL DRAWING/TEGNIESE TEKENE HG
Paper 2/Vraestel 2





TECHNICAL DRAWING HG

TEGNIÛSE TEKENE HG

(Second Paper)

711-1/2 K

(Tweede Vraestel)

QUESTION 1

FIGURE 1 ON ANSWER SHEET 1 SHOWS AN INCOMPLETE DRAWING OF AN ASSEMBLY FROM THE INDUSTRY.

STUDY THE DRAWING , THEN ANSWER THE QUESTIONS THAT FOLLOW.

(25)

VRAAG 1

FIGUUR 1 OP DIAGRAMVEL 1 TOON 'N ONVOLTOOIDE TEKENING VAN 'N SAMESTELLING VANUIT DIE INDUSTRIE.

BESTUDEER DIE TEKENING EN BEANTWOORD DIE VRAE WAT VOLG.

(25)

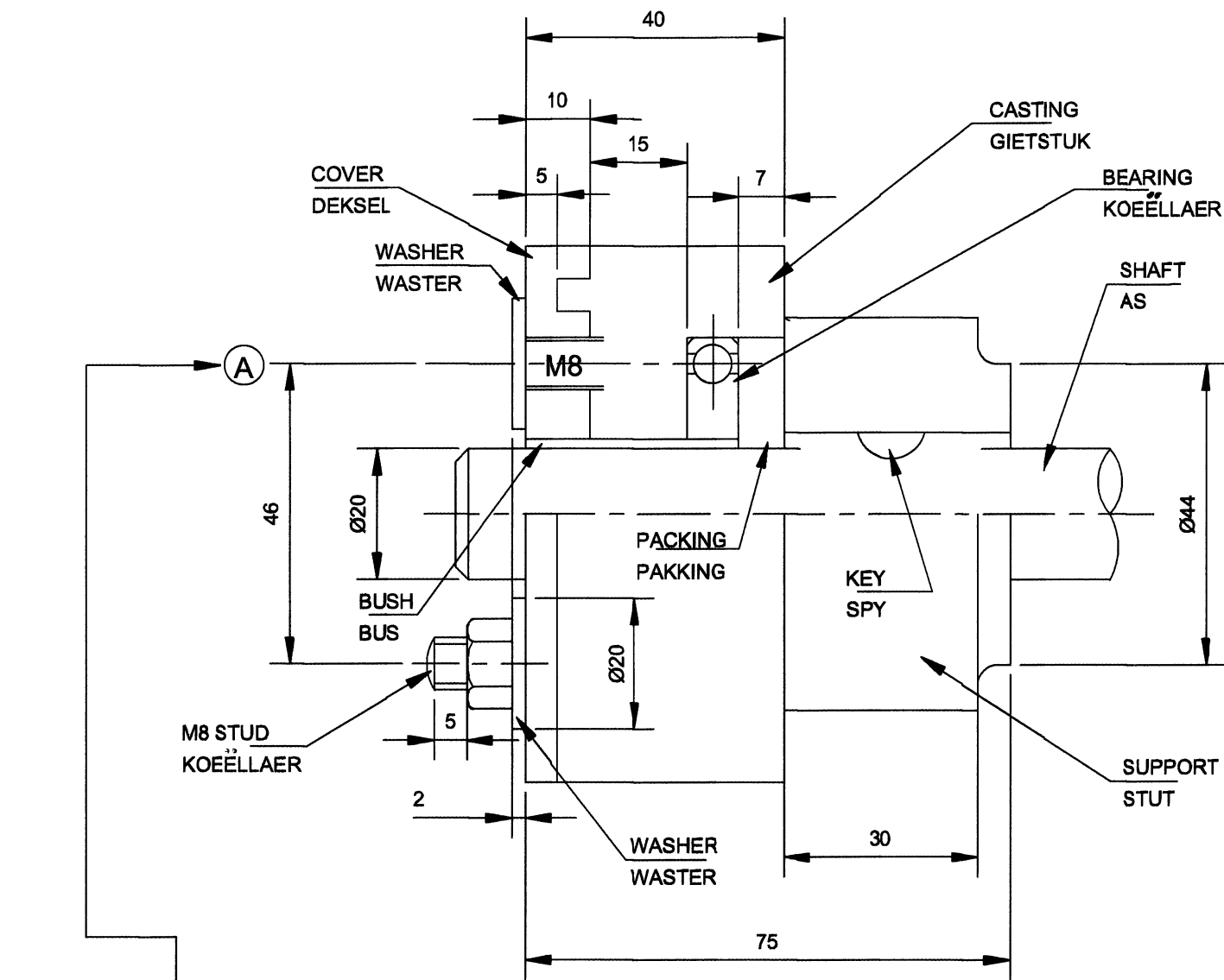
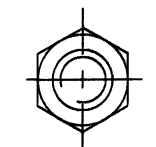
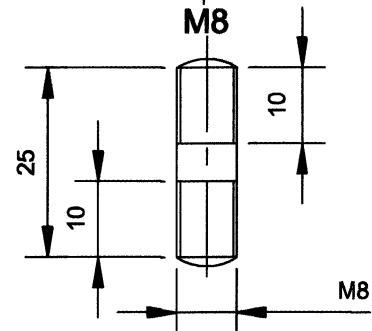


FIGURE 1
FIGUUR 1



DETAIL 1

QUESTIONS / VRAE	ANSWERS ANTWOORDE	MARKS PUNTE
1. DETERMINE THE THICKNESS OF THE BEARING . 1. BEPAAL DIE DIKTE VAN DIE KOEËLLAER.		1
2. HOW MANY COMPONENTS DOES THE ASSEMBLY CONSIST OF, INCLUDING THE FASTENERS ? 2. UIT HOEVEEL ONDERDELE BESTAAN DIE SAMESTELLING INSLUITENDE DIE HEGSTUKKE ?		1
3. NAME THE TYPE OF KEY USED . 3. BENOEM DIE TIPE SPY WAT GEBRUIK WORD .		1
4. WHAT IS THE WASHER SIZE ? 4. WAT IS DIE WASTERGROOTTE ?		1
5. DRAW THE STUD AS SHOWN IN DETAIL 1 ON THE ASSEMBLY IN THE DIRECTION OF ARROW A AND DRAW IN THE NUT SHOWN IN DETAIL 1 . 5. TEKEN DIE TAPENT GETOON IN DETAIL 1 OP DIE SAMESTELLING SOOS AANGEDUI DEUR PYL A EN TEKEN DIE MOER GETOON IN DETAIL 1 OP DIE TAPENT.		6
6. HATCH THE SECTIONED PART OF THE ASSEMBLY. 6. ARSEER DIE SNITGEDEELTE VAN DIE SAMESTELLING.		15
TOTAL / TOTAAL		25

EXAMINATION NUMBER / EKSAMENNOMMER

A/B

QUESTION 1 / VRAAG 1

ANSWER SHEET 1

ANTWOORDVEL 1

QUESTION 2

BY MAKING USE OF THE GIVEN VIEW, PRODUCE A TWO-POINT PERSPECTIVE DRAWING OF THE DWELLING.

DO NOT SHOW HIDDEN DETAIL.

(40)

VRAAG 2

DEUR GEBRUIK TE MAAK VAN DIE GEGEWE AANSIG, TEKEN 'N TWEEPUNT PERSPEKTIEF TEKENING VAN DIE WOONHUIS.

MOENIE VERBORGE DETAIL TOON NIE.

(40)

TECHNICAL DRAWING HG

TEGNIесе TEKENE HG

(Second Paper)

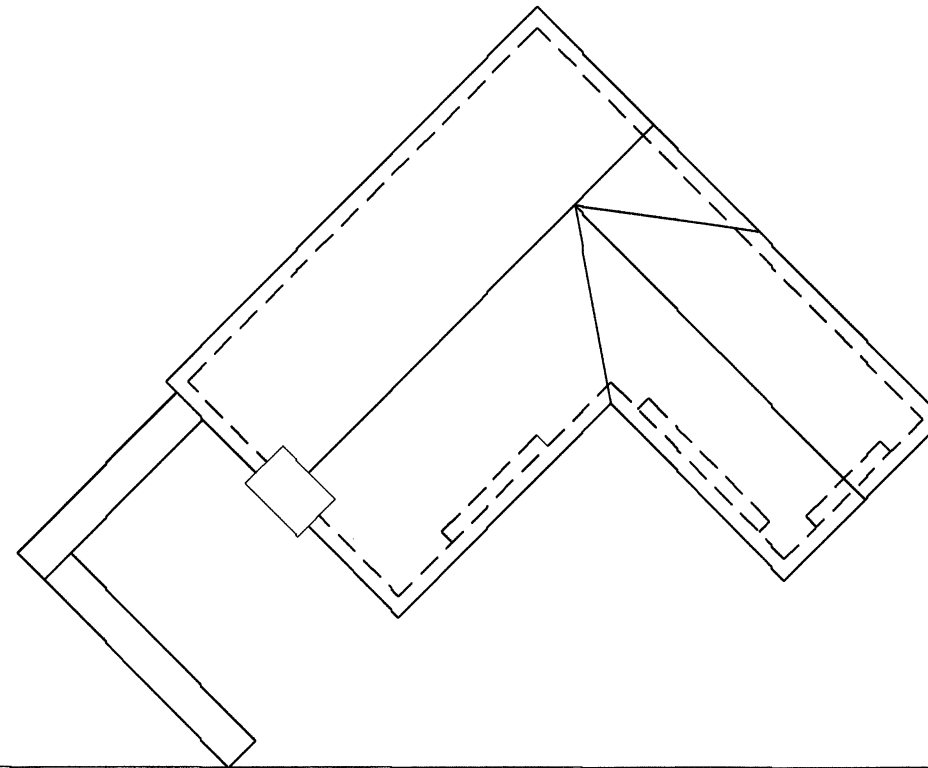
711-1/2 K

(Tweede Vraestel)



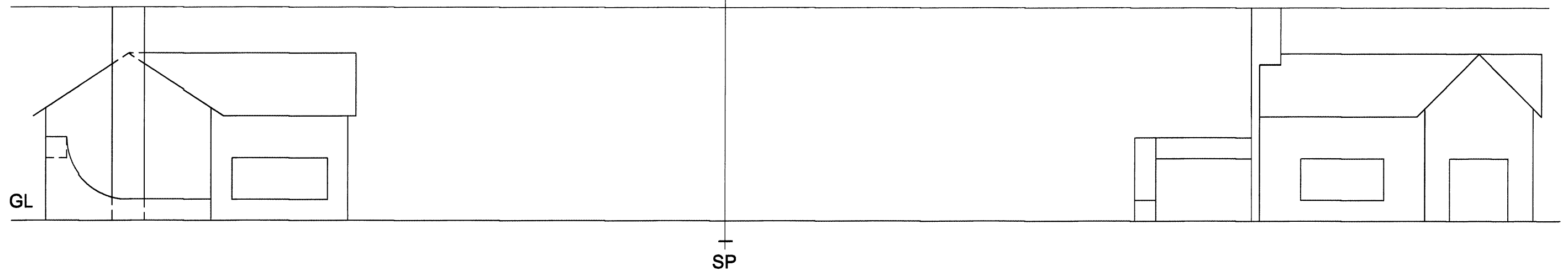
MARK ALLOCATION / PUNTETOEKENNING

VPs / VPe	2			
PERSPECTIVE / PERSPEKTIEF	35			
PRESENTATION/AANBIEDING	3			
TOTAL / TOTAAL	40			



PP / PV

HL



EXAMINATION NUMBER / EKSAMENNOMMER

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QUESTION 2 / VRAAG 2

ANSWER SHEET 2

ANTWOORDVEL 2



QUESTION 3

FIGURE 3 SHOWS TWO VIEWS OF A CASTING.

DRAW A SECTIONED ISOMETRIC VIEW OF THE CASTING TO SCALE 1:1 ON CUTTING PLANE F-F.

START AT THE GIVEN POINT Q.

DO NOT SHOW HIDDEN DETAIL. (40)

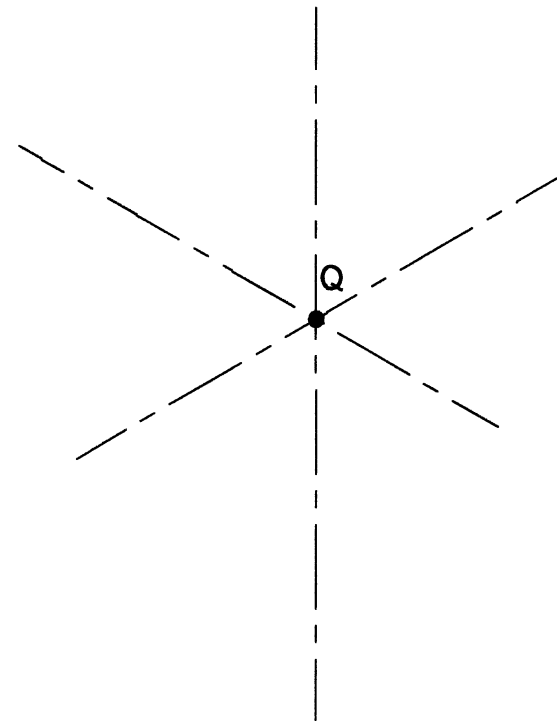
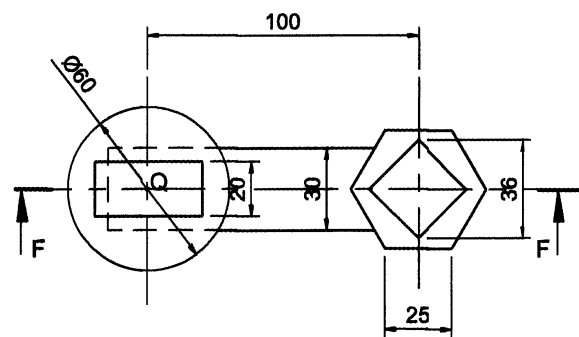
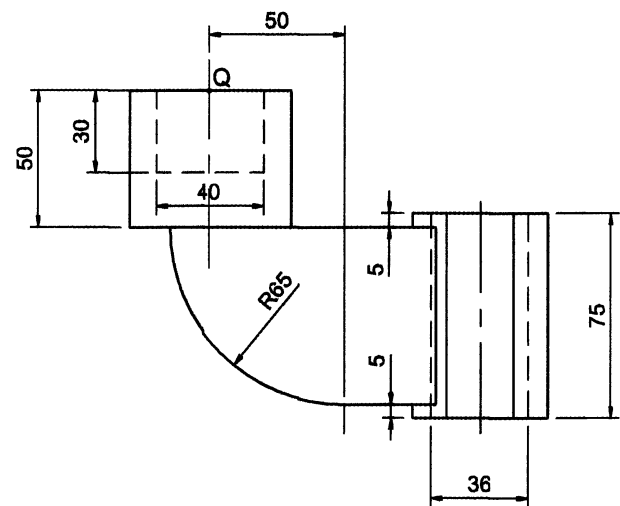
VRAAG 3

FIGUUR 3 TOON TWEE AANSIGTE VAN 'N GIETSTUK.

TEKEN VOLGENS 'N SKAAL VAN 1:1 'N DEURSNEE ISOMETRIESE AANSIG VAN DIE GIETSTUK OP SNYVLAK F-F.

BEGIN DIE TEKENING BY DIE GEGEWE PUNT Q.

MOENIE VERBORGE DETAIL TOON NIE. (40)



MARK ALLOCATION / PUNTETOEKENNING

ISOMETRIC / ISOMETRIES	36		
SECTIONING/ARSERING	2		
PRESENTATION / AANBIEDING	2		
TOTAL / TOTAAL	40		

QUESTION 4

ANSWER THIS QUESTION ON ANSWER SHEET 4.

THE DIAGRAM SHEET SHOWS THE COMPONENTS OF A TOGGLE CLAMP AS WELL AS A KEY TO THE ASSEMBLY OF THE TOGGLE CLAMP.

4.1 DRAW TO SCALE 1:1 AND IN THIRD-ANGLE ORTHOGRAPHIC PROJECTION THE FOLLOWING VIEWS :-

4.1.1 SECTIONAL FRONT VIEW ON CUTTING PLANE C-C AS INDICATED ON BRACKET A.

4.1.2 RIGHT VIEW (DO NOT SHOW HIDDEN DETAIL)

MAKE USE OF THE GIVEN CENTRE LINES TO PLAN THE DRAWING.

4.2 INSERT THREE DIMENSIONS ON EACH VIEW.

(95)

VRAAG 4

BEANTWOORD DIE VRAAG OP ANTWOORDVEL 4.

DIE DIAGRAMVEL TOON DIE KOMPONENTE VAN 'N SKARNIERHEFBOOM ASOOK DIE SLEUTEL OM AAN TE TOON HOE DIE SKARNIERKLAMP SAAMGESTEL WORD.

4.1 TEKEN VOLGENS SKAAL 1:1 EN IN DERDEHOEKSE ORTOGRAFIESE PROJEKSIE DIE VOLGENDE AANSIGTE :-

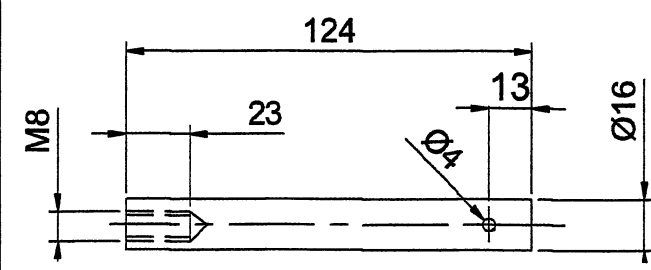
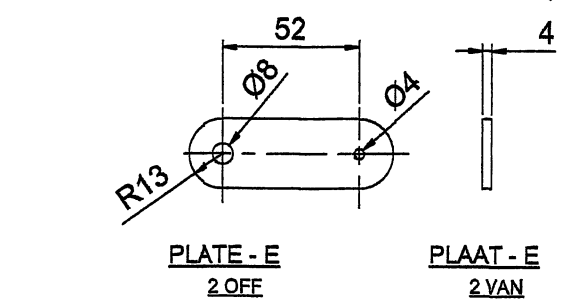
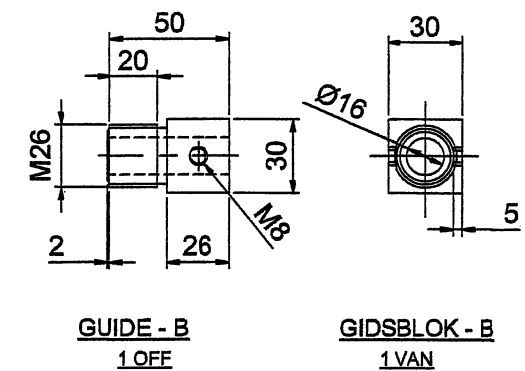
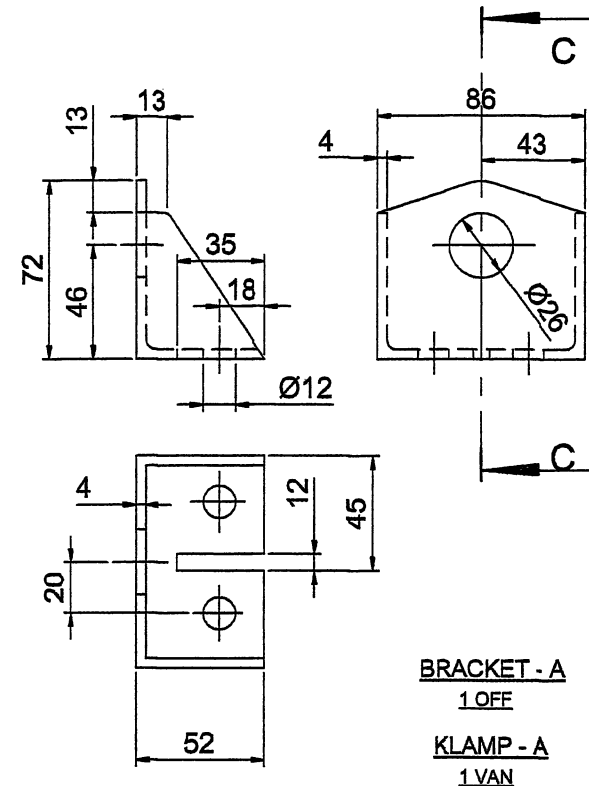
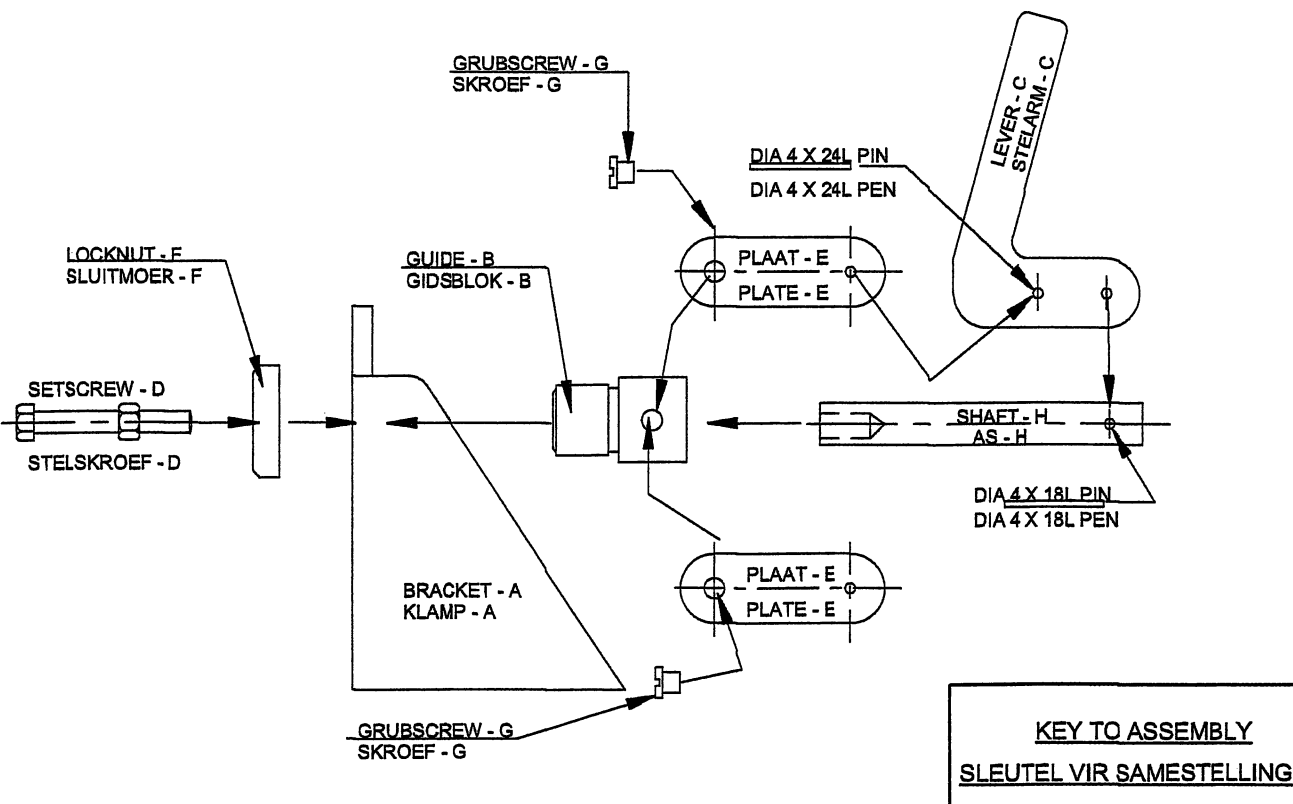
4.1.1 DEURSNEE VOORAANSIG OP SNYVLAK C-C SOOS AANGETOON OP KLAMP A.

4.1.2 REGTER AANSIG (MOET NIE VERBORGE DETAIL TOON NIE)

MAAK GEBRUIK VAN DIE GEGEWE MIDDELLYNE OM DIE TEKENING TE BEPLAN.

4.2 TOON DRIE AFMETINGS OP ELKE AANSIG.

(95)



TECHNICAL DRAWING HG

TEGNIESE TEKENE HG

(Second Paper)

711-1/2 K

(Tweede Vraestel)

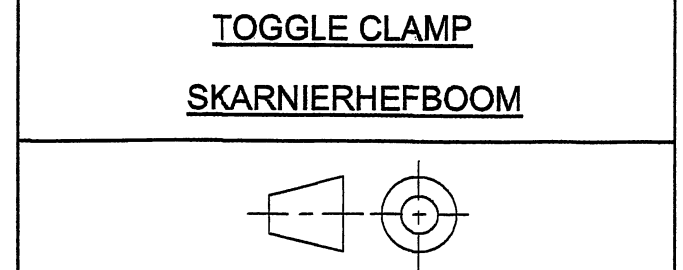
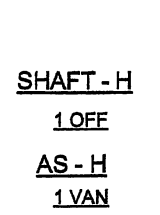
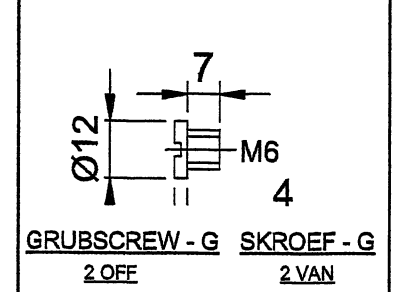
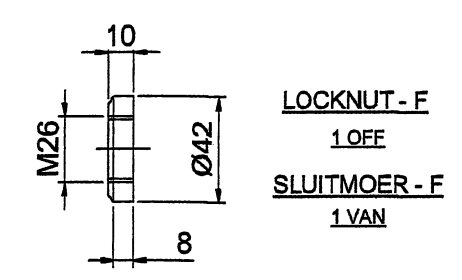
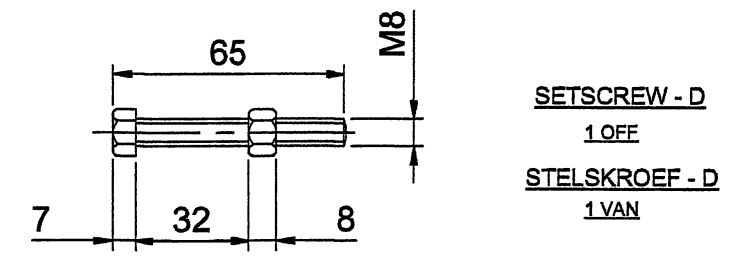
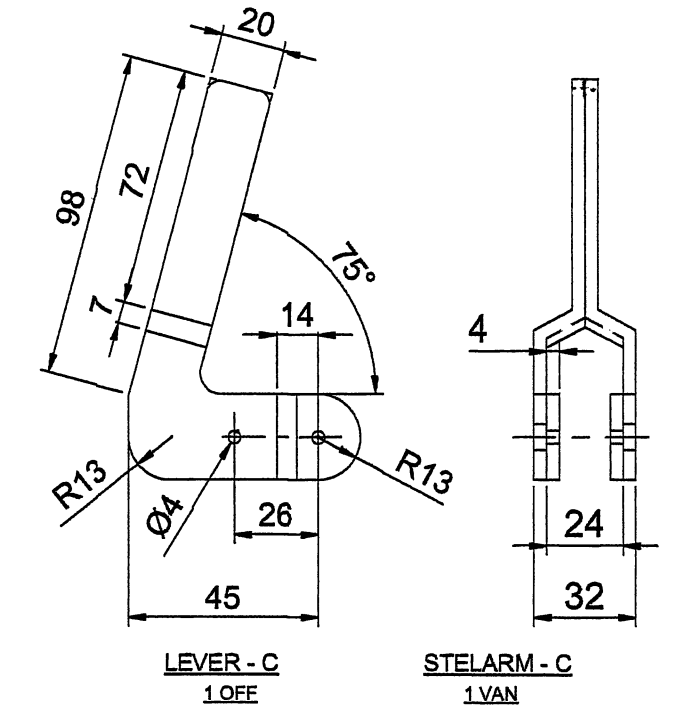


DIAGRAM SHEET FOR QUESTION 4
DIAGRAMVEL VIR VRAAG 4

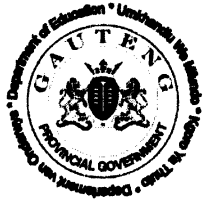
TECHNICAL DRAWING HG

TEGNIесе TEKENE HG

(Second Paper)

711-1/2 K

(Tweede Vraestel)



MARK ALLOCATION / PUNTETOEKENNING

FRONT VIEW / VOORAANSIG

BRACKET / KLAMP	8		
SECTIONING / ARSERING	4		
SET SCREW / STELSKROEF	8		
SECTIONING / ARSERING	4		
LOCKNUT / SLUITMOER	2		
SECTIONING / ARSERING	1		
SHAFT & PINS/AS & PENNE	5		
SECTIONING / ARSERING	4		
GUIDE / GIDSBLOK	8		
SECTIONING / ARSERING	2		
PLATE / PLAAT	2		
SECTIONING / ARSERING	1		
LEVER / STELARM	10		
SECTIONING / ARSERING	1		
SUBTOTAL / SUBTOTAAL	60		

RIGHT VIEW / REGTERAANSIG

BRACKET / KLAMP	5		
PLATE,SCREWS/PLAAT,SKROEWE	6		
SHAFT / AS	1		
GUIDE / GIDSBLOK	2		
LEVER / STELARM	12		
SUBTOTAL / SUBTOTAAL	26		

SUMMARY / OPSOMMING

FRONT VIEW / VOORAANSIG	60		
RIGHT VIEW / REGTERAANSIG	26		
DIMENSIONS / AFMETINGS	3		
PRESENTATION/AANBIEDING	6		
ASSEMBLY/SAMESTELLING	-8		
TOTAL / TOTAAL	95		

CL RIGHT VIEW
ML VOORAANSIG

CL RIGHT VIEW
ML REGTERAANSIG

EXAMINATION NUMBER / EKSAMENNOMMER

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QUESTION 4 / VRAAG 4

ANSWER SHEET 4

ANTWOORDVEL 4