GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

**JUNE EXAMINATIONS**
**GRADE 12**
**2025**

# ENGINEERING GRAPHICS AND DESIGN P2

# MARKING GUIDELINES

**These marking guidelines consist of 6 pages.**

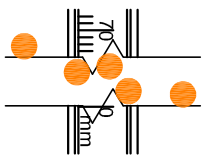
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# ANSWERS

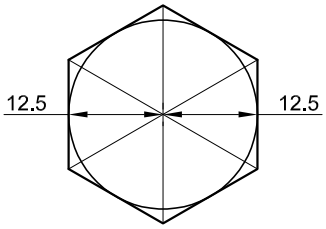
| | | |
|---|---|---|
| 1 | VERNIER CALIPER | 1 |
| 2 | AUTOCAD 360 | 1 |
| 3 | 1 : 2 | 1 |
| 4 | None / 0 | 1 |
| 5 | STAINLESS STEEL | 1 |
| 6 | 3RD ANGLE ORTHOGRAPHIC PROJECTION | 1 |
| 7 | CHECKED THE DRAWING | 1 |
| 8 | BOTTOM VIEW | 1 |
| 9 | 23°C | 1 |
| 10 | A: 16 B: 7,5 C: 8 | 3 |
| 11 | 73°, **74°,** 75° | 1 |
| 12 | SCREW | 1 |
| 13 | REVOLVED SECTION | 1 |
| 14 | DIAMOND KNURLING | 2 |
| 15 | PART SECTION | 1 |
| 16 | FILLET | 1 |
| 17 | SHOW DETAIL | 1 |
| 18 | *See below* | 3 |
| 19 | | 4 |
| 20 | | 3 |
| | **TOTAL** | **30** |

ANSWER 18

FREEHAND




ANSWER 20



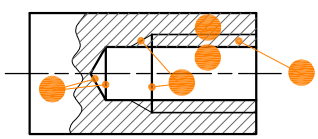

INSTRUMENTS

CONSTR.

12,5 mm from CL x 2 ✓1

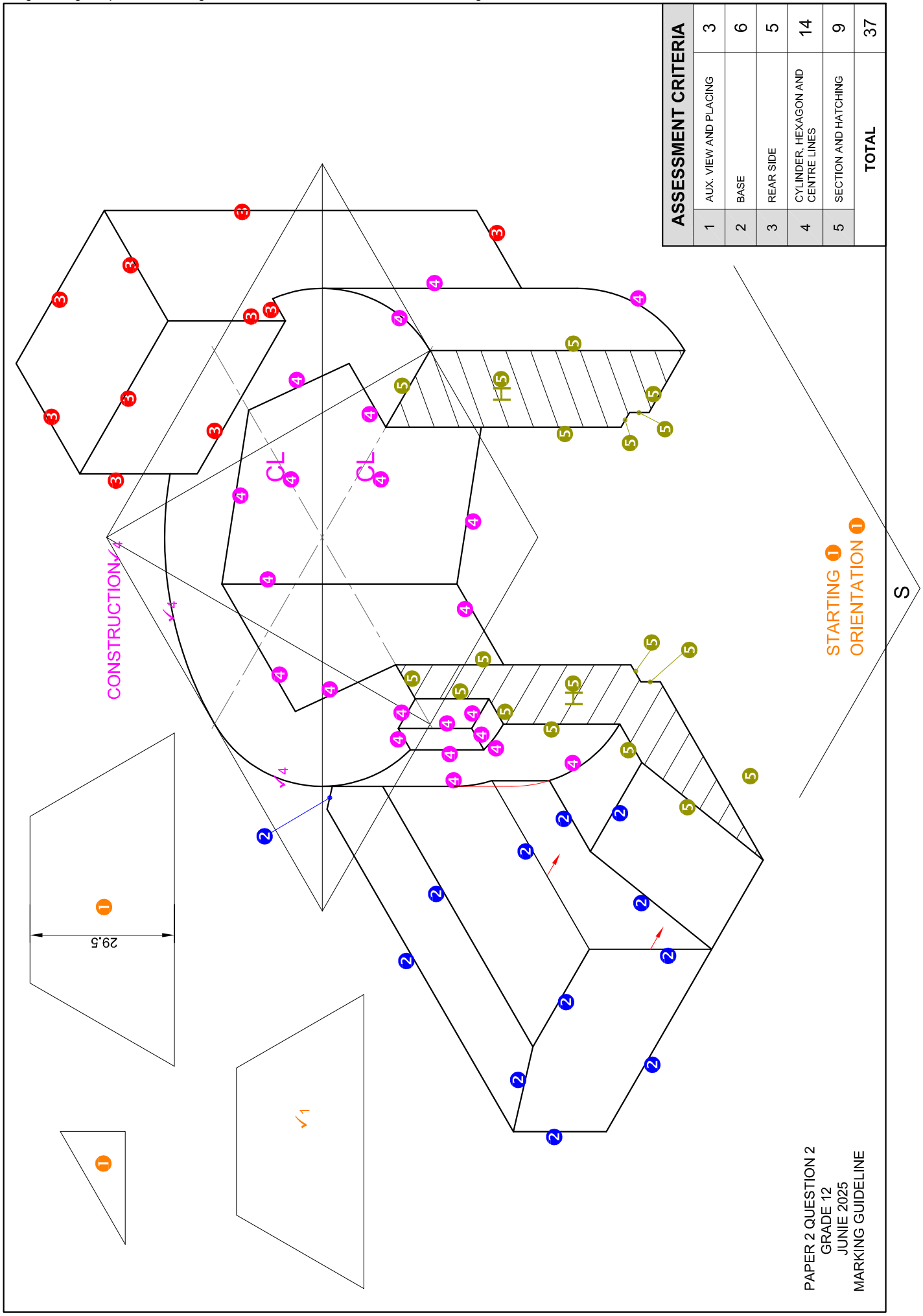
COMPLETE HEXAGON ✓1

ANSWER 19 FREEHAND



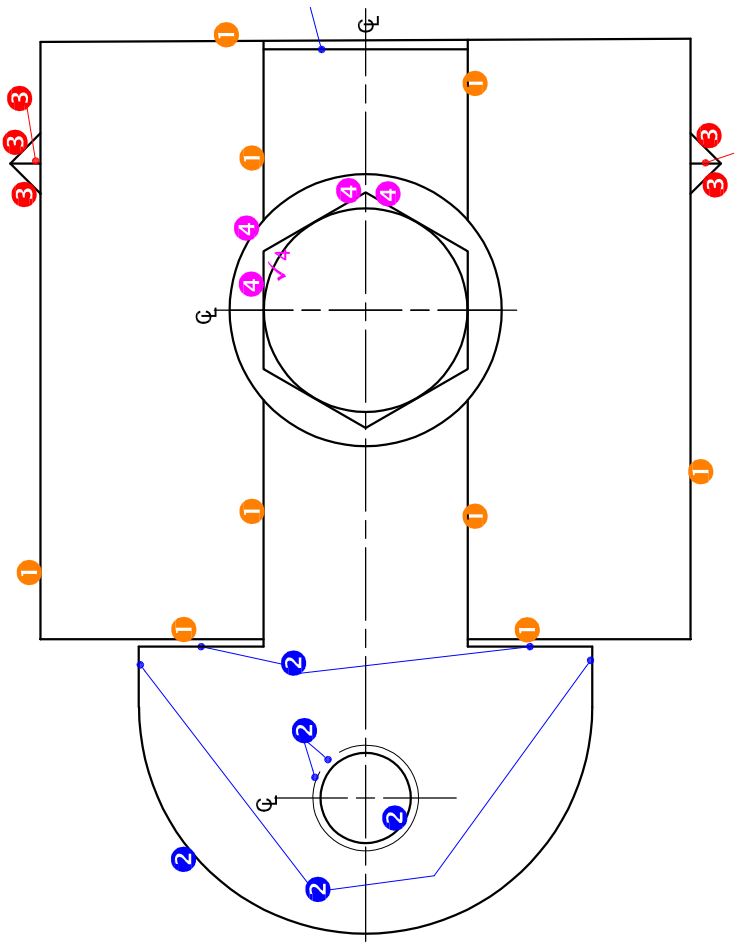
PAPER 2 QUESTION 1
GRADE 12
JUNE 2025
MARKING GUIDLINE

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| ASSESSMENT CRITERIA | | | |
|---|---|---|---|
| BOTTOM VIEW | | | |
| | 1 | FRAME | 4½ |
| | 2 | BEARING BOX | 2½ |
| | 3 | BEVEL GEAR | 3 |
| | 4 | M18 FLANDED BOLT | 3 |
| | | SUBTOTAL | 13 |
| GENERAL | | | |
| | 1 | CENTRE LINES | 3 |
| | 2 | ASSEMBLY | 8 |
| | | SUBTOTAL | 11 |
| | | TOTAL | 93 |

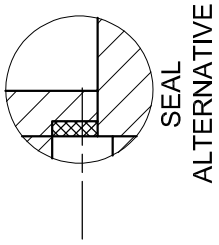


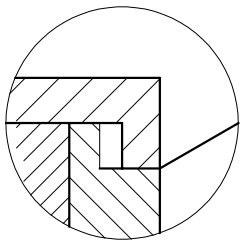
1. CENTRE LINES — 1
SANS COMPLIANT
1 - 4 = 0,5; 5 - 8 = 1; 9 -10 = 2 — 2/3

2. ASSEMBLY
1 MARK FOR EVERY COMPONENT
CORRECTLY ASSEMBLED (9 PARTS - 1) = 8

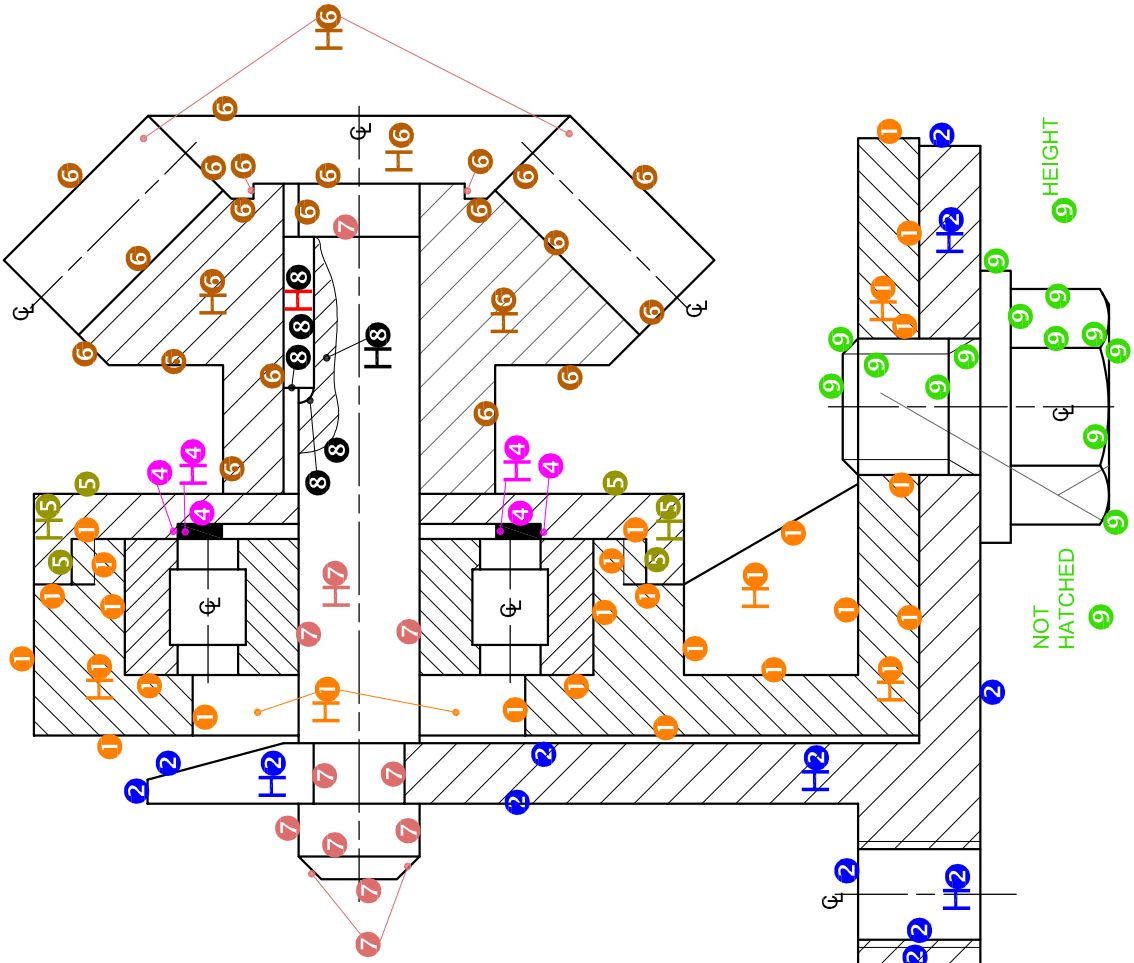
PAPER 2 QUESTION 3
GRADE 12
JUNE 2025
MARKING GUIDELINE

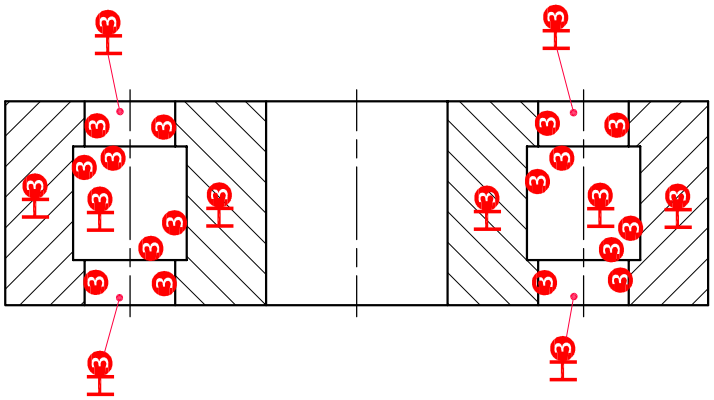
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| ASSESSMENT CRITERIA | SECTIONAL FRONT VIEW | |
|---|---|---|
| 1 | FRAME | 14 ½ |
| 2 | BEARING BOX | 7 ½ |
| 3 | ROLLER BEARING | 13 |
| 4 | SEAL | 3 |
| 5 | DUST COVER | 3 |
| 6 | BEVEL GEAR | 12 |
| 7 | SHAFT | 5 ½ |
| 8 | FEATHER KEY | 3 |
| 9 | M18 FLANGED BOLT | 7 ½ |
| | **SUBTOTAL** | 69 |




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MARKING GUIDELINE

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