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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

NOVEMBER 2015

MEMORANDUM

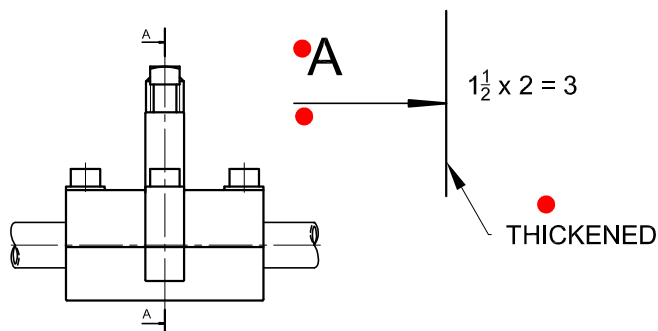
MARKS: 100

This memorandum consists of 7 pages.

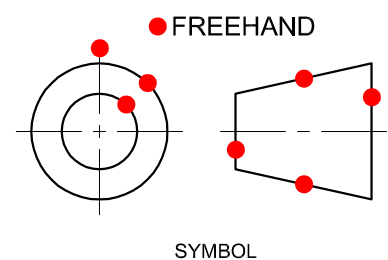
ANSWERS

1	TAPPING VALVE	1
2	2015/01/05	1
3	2015 - A - 005	1
4	SCALE 2 : 1	1
5	AUTOCAD	1
6	ANDREW BRAND	1
7	PEWTER	1
8	SECTIONAL FRONT VIEW	1
9	3	1
10	A : Ø 4 B : 4 C : 26	3
11	FILLET	1
12	PART SECTION	1
13	SPECIFIC PART HATCHING e.g. RUBBER or THIN PART	1
14	29	1
15	TO SHOW DETAIL	2
16	INTERRUPTED VIEW/CONTINUES/S-BREAK	1
17	Ø6.35	2
18	Ø5.47	2
19	See below	3
20		4
TOTAL		30

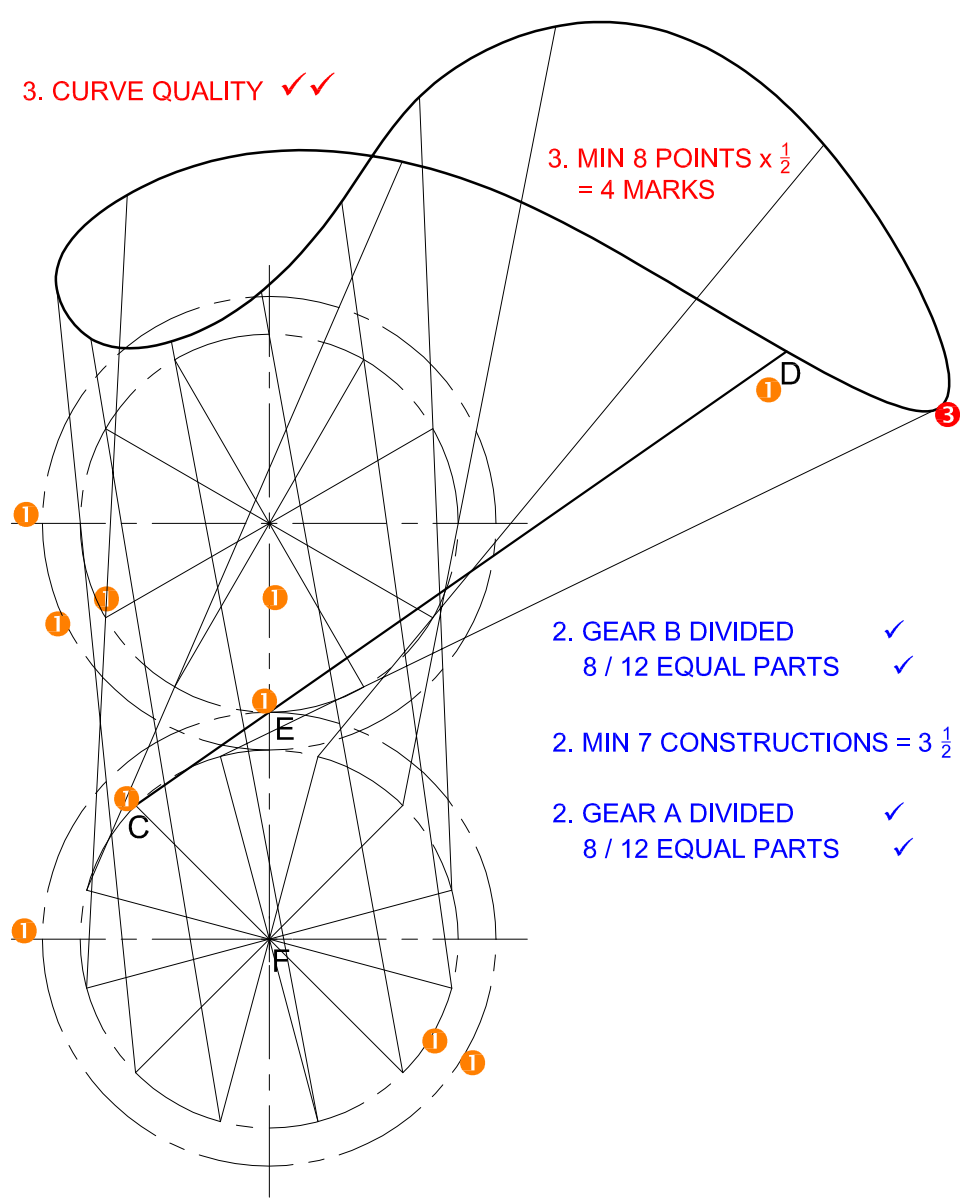
ANSWER 19



ANSWER 20

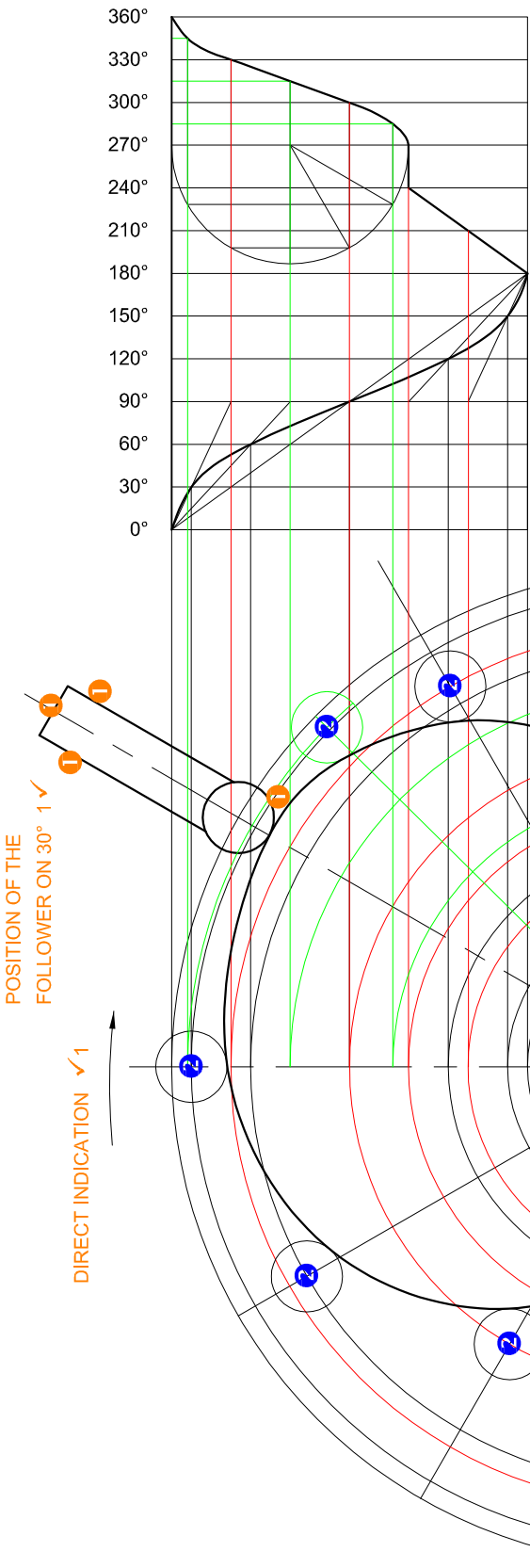


PAPER 2 QUESTION 1
GRADE 12
November 2015
MEMORANDUM



PAPER 2 QUESTION 2.1
GRADE 12
November 2015
MEMORANDUM

ASSESSMENT CRITERIA 2.1		
1	GIVEN + CENTRE LINES	5
2	CONSTRUCTION	7 ¹ / ₂
3	POINTS + CURVE	6 ¹ / ₂
SUBTOTAL 2.1		19



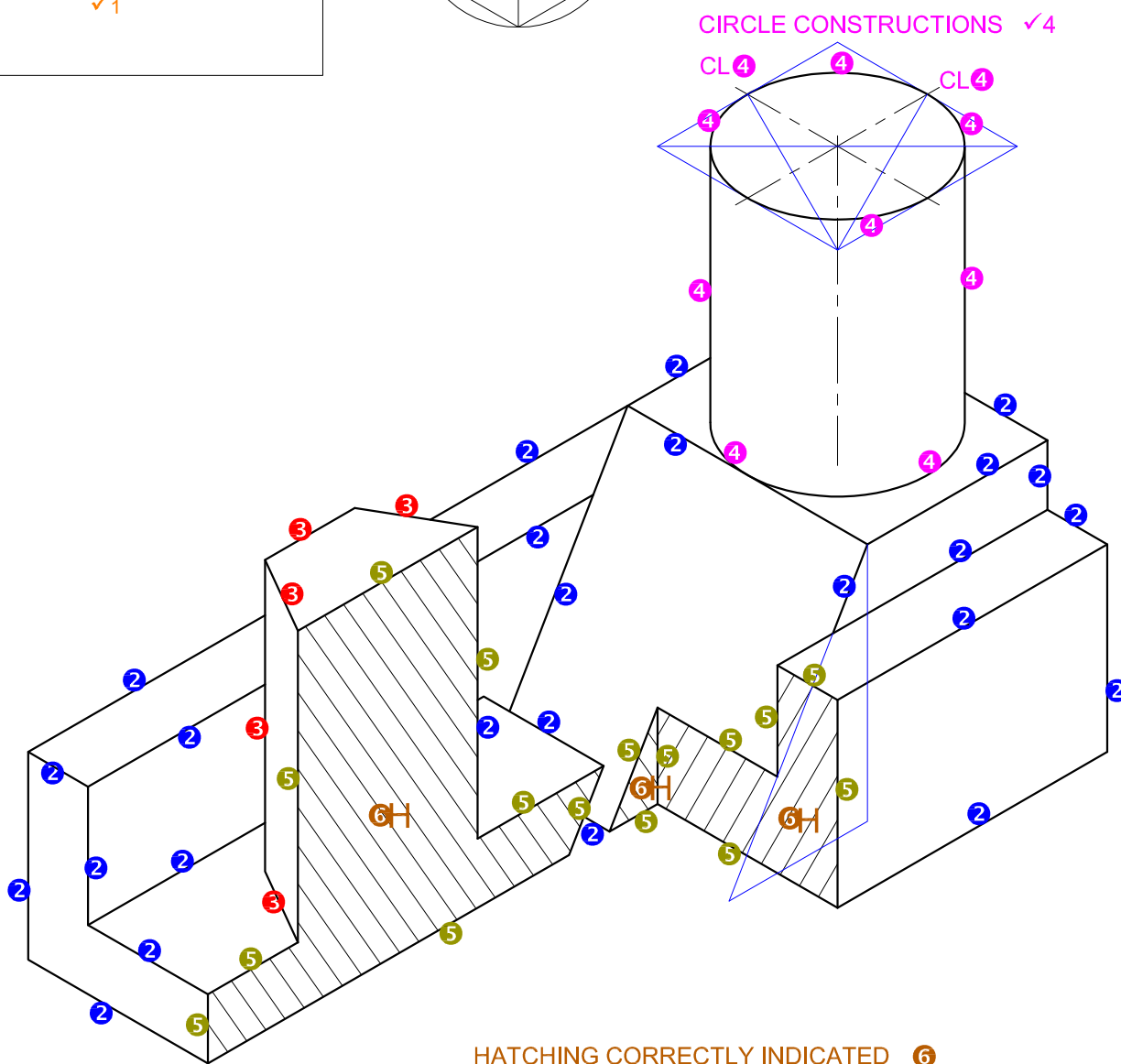
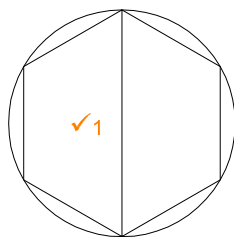
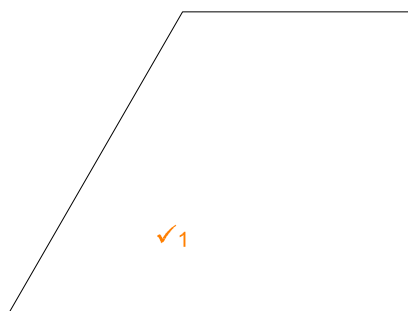
DISPLACEMENT GRAPH
SCALE 6 mm = 30°

- 1. CONSTRUCTION**
- CIRCLE DIVISION 1
 - HORIZONTAL PROJECTION 1
 - ARC PROJECTION 1
 - DIRECTION CORRECT 1
- 4

- 3. CAM PROFILE**
- ROLLERS 2
 - CURVES 4
- 6

ASSESSMENT CRITERIA 2.2		
1	CONSTRUCTION + FOLLOWER + DIRECTION	8
2	PLOTTING	7
3	CAM PROFILE	6
SUBTOTAL 2.2		21

PAPER 2 QUESTION 2.2
GRADE 12
November 2015
MEMORANDUM



ASSESSMENT CRITERIA		
1	AUXILIARY VIEW + PLACING	3
2	ISOMETRIC + NON-ISOMETRIC	12 $\frac{1}{2}$
3	HEXAGON	2 $\frac{1}{2}$
4	CIRCLES + CONSTRUCTION + CL	6
5	SECTION	8
6	HATCHING	2
PENALTIES (-)		
TOTAL		34

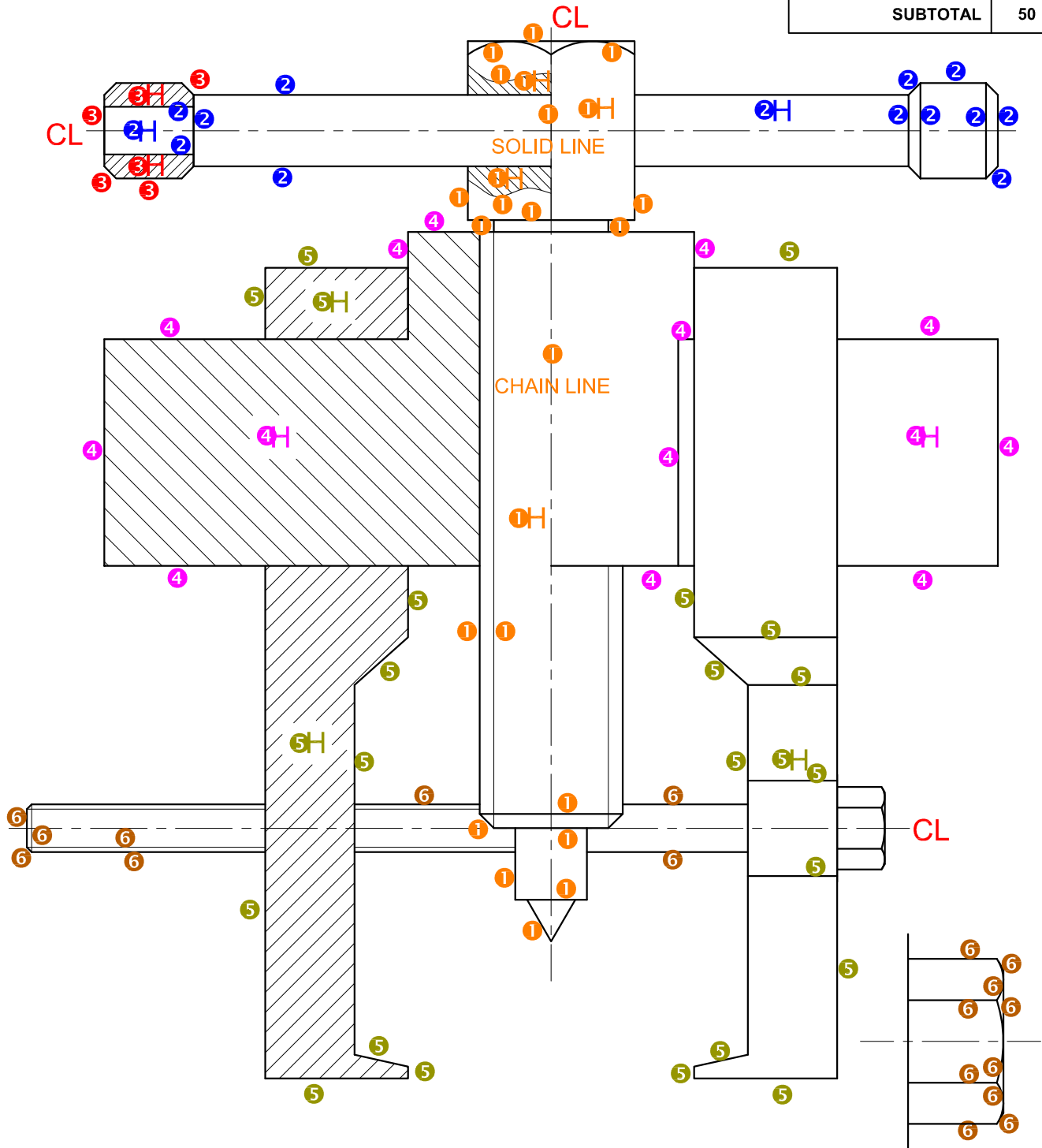


P CORRECT PLACEMENT ON POINT P ✓1

PAPER 2 QUESTION 3
GRADE 12
November 2015
MEMORANDUM

ASSESSMENT CRITERIA**SECTIONAL FRONT VIEW**

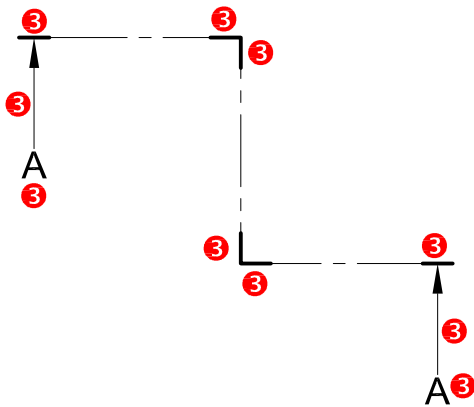
1	WORM SCREW	12
2	LEVER	7
3	END RING	3
4	BEAM	7
5	STRONG ARM	12
6	M8 BOLT	9
SUBTOTAL		50



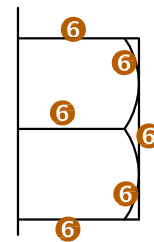
PAPER 2 QUESTION 4
 GRADE 12
 November 2015
 MEMORANDUM

ASSESSMENT CRITERIA**TOP VIEW**

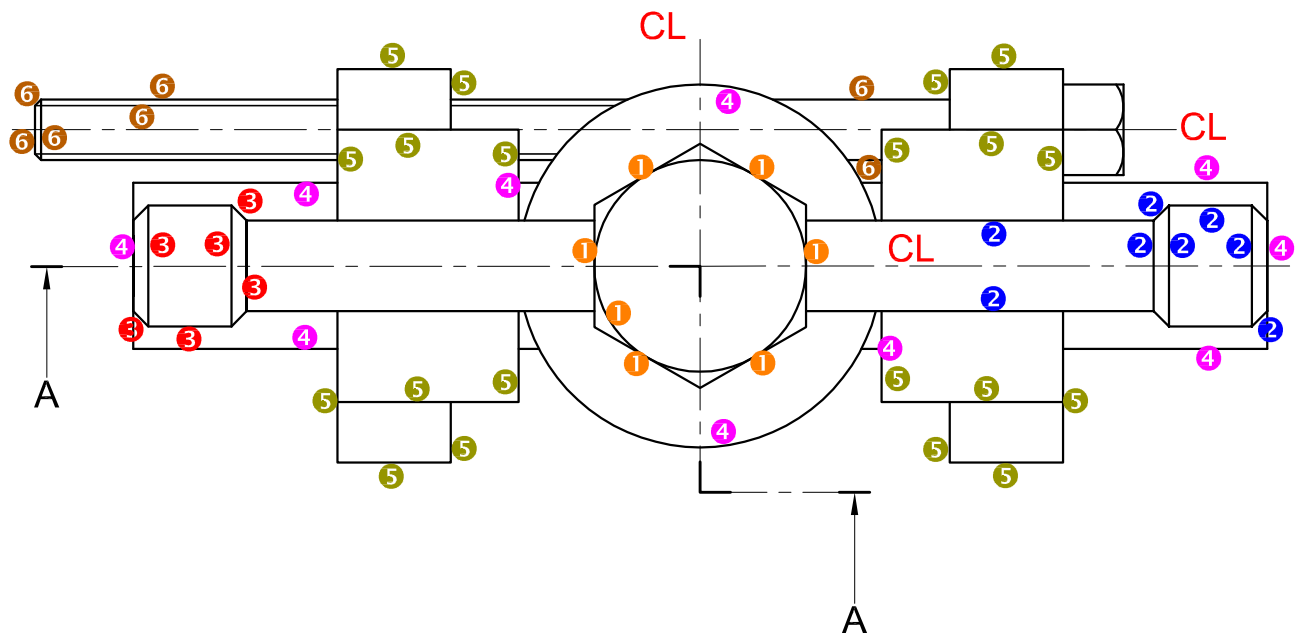
1	WORM SCREW	$3\frac{1}{2}$
2	LEVER	4
3	END RING	3
4	BEAM	5
5	STRONG ARM	10
6	M8 BOLT	$6\frac{1}{2}$
SUBTOTAL		32



DETAIL OF MARK
ALLOCATION FOR
SECTION A-A



DETAIL OF MARK
ALLOCATION FOR
BOLT HEAD



1 MARK FOR EVERY
COMPONENT CORRECTLY
ASSEMBLED (7 PARTS - 1) = 6