



education

Department of
Education
FREE STATE PROVINCE

ENGINEERING GRAPHICS AND DESIGN

GRADE 12

TEST

MAARCH 2018

TIME: 1 HOUR

TOTAL: 90

This question paper consists of 3 pages (including front page)

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. ALL drawings are in third-angle orthographic projection, unless stated otherwise.
3. ALL drawings must be drawn to scale 1:1, unless stated otherwise.
4. ALL questions must be answered on the DIAGRAM SHEET as instructed.
5. ALL the pages must be stapled in numeric sequence, irrespective of whether the question was attempted or not.
6. Time management is essential in order to complete all the questions.
7. Print your name and surname as well as the grade in the space provided on each page.
8. ALL answers must be drawn accurately and neatly.
9. ALL necessary construction and projection lines must be shown.
9. Plan the layout of each drawing accurately whether or not the starting position on the diagram sheet is shown.
10. Any details or dimensions not given must be assumed in good proportion.

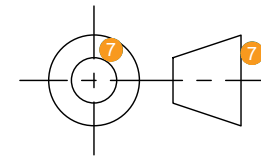
FOR OFFICIAL USE ONLY						
QUESTION	MARKS OBTAINED		½	MODERATED		½
1						
TOTAL						
	9	0		9	0	

FINAL CONVERTED MARK	CHECKED BY
60	

NAME & SURNAME	MEMORANDUM	GRADE	12	1
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STAPEL

PROJECTION SYSTEM SYMBOL



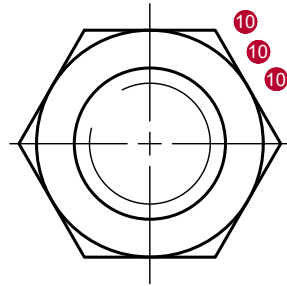
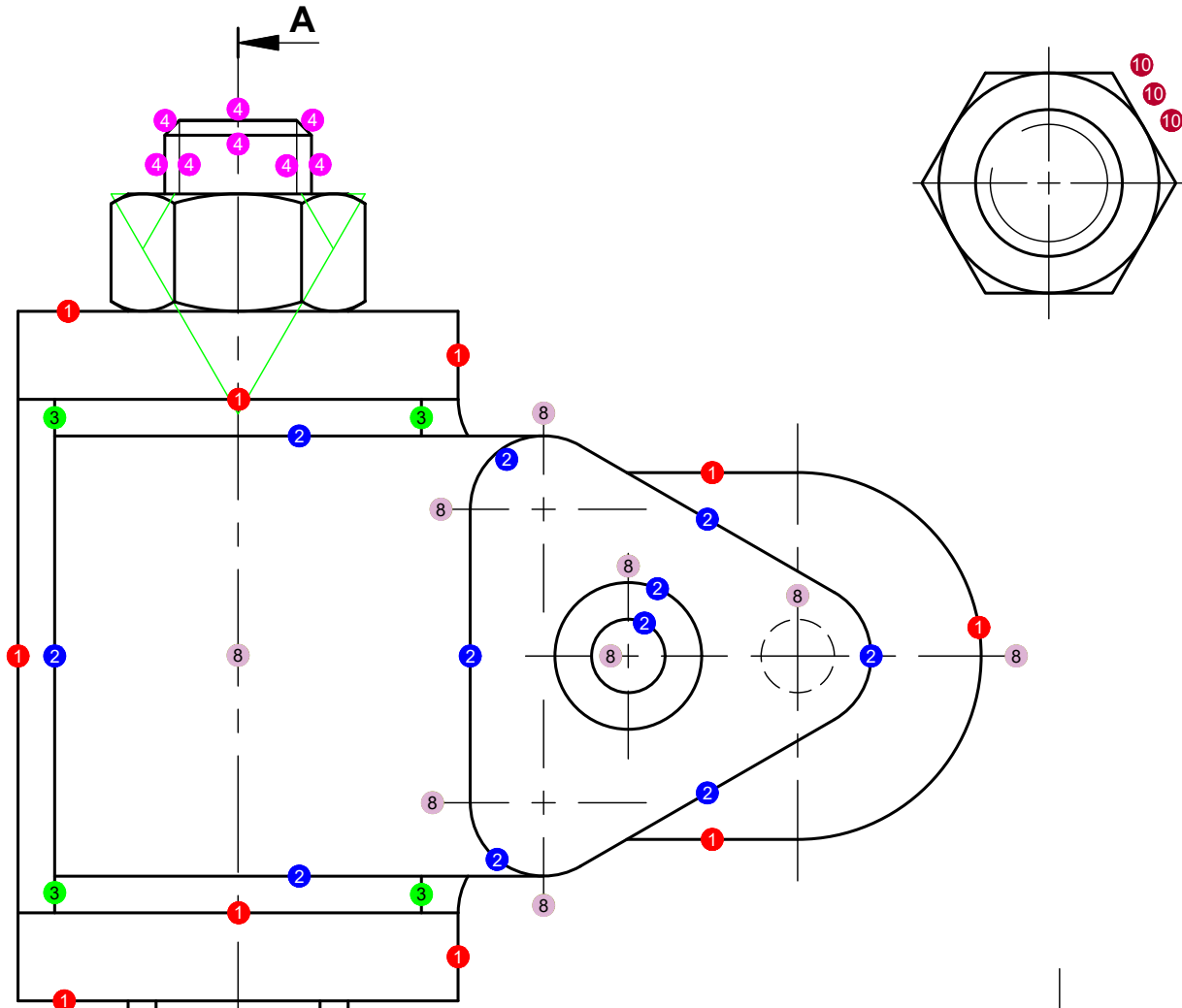
TITLE & SCALE

HINGE ASSEMBLY

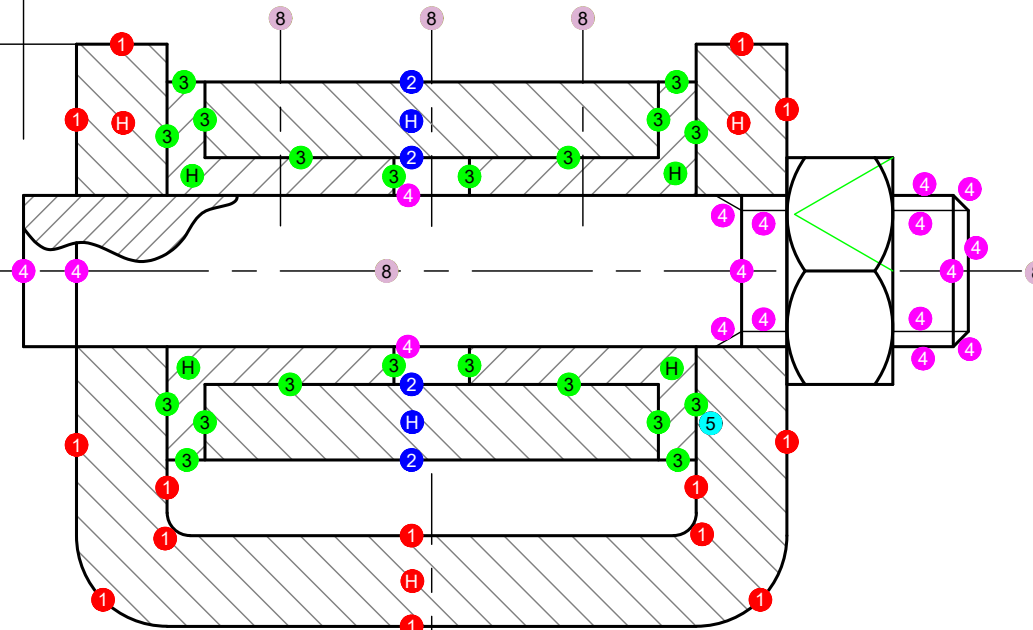
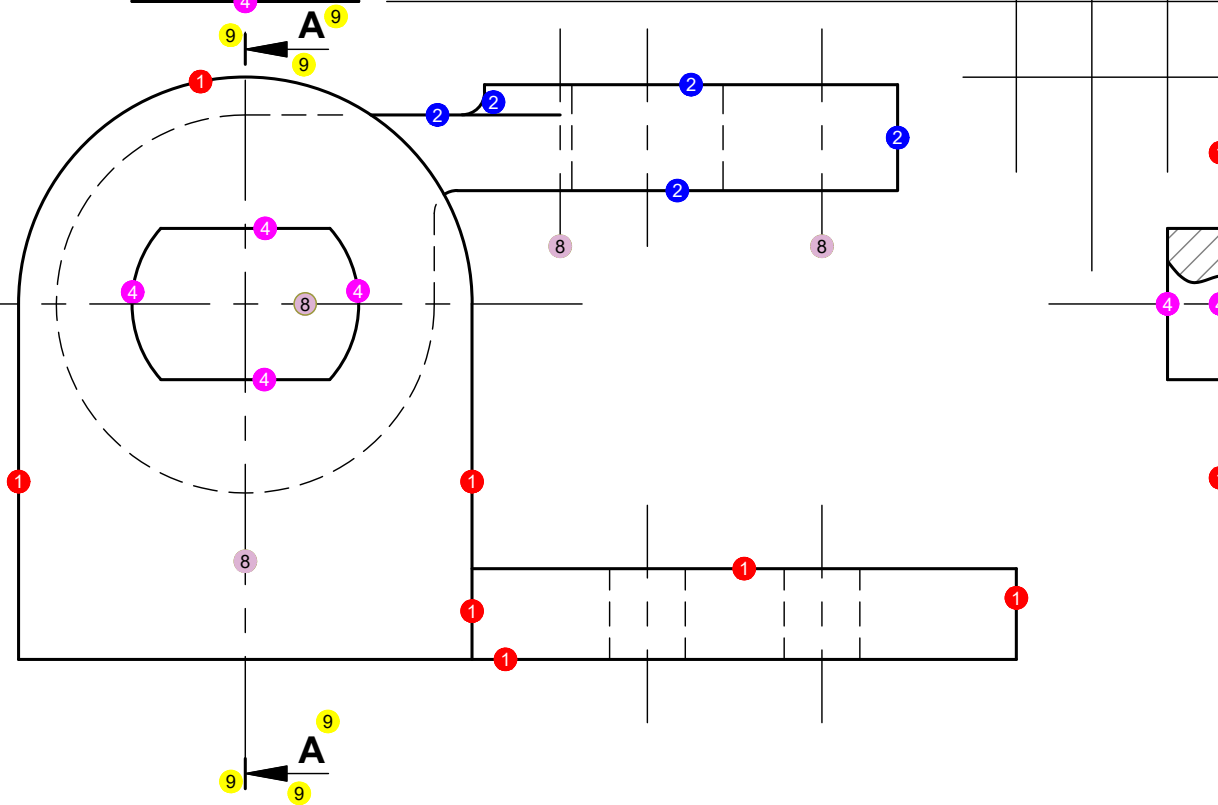
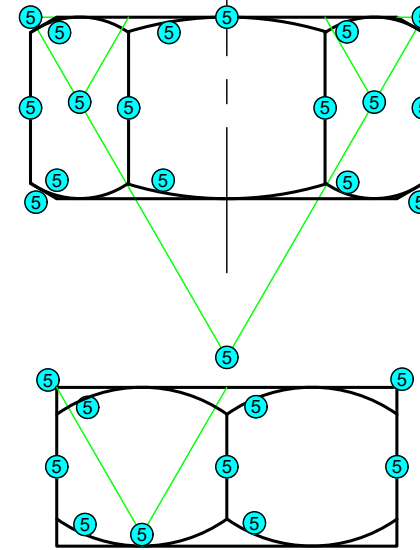
6

SCALE 1:1

6



ENLARGED NUT



ASSESSMENT CRITERIA

FRONT VIEW

1	Hinge clamp ($\frac{7}{2}$)	1	3,5		
2	Hinge blade ($\frac{5}{2}$)	2	2,5		
4	Hinge Pin ($\frac{4}{2}$)	4	2		
SUBTOTAL 1			8		

SECTIONAL RIGHT VIEW

1	Hinge clamp ($\frac{17}{2}$)	1	8,5		
2	Hinge blade ($\frac{6}{2}$)	2	3		
3	Bush ($\frac{24}{2}$)	3	12		
4	Hinge Pin ($\frac{17}{2}$)	4	8,5		
5	M 20 Nut ($\frac{10}{2}$)	5	5		
SUBTOTAL 2			37		

TOP VIEW

1	Hinge clamp ($\frac{10}{2}$)	1	5		
2	Hinge blade ($\frac{11}{2}$)	2	5,5		
3	Bush ($\frac{4}{2}$)	3	2		
4	Hinge Pin ($\frac{13}{2}$)	4	6,5		
5	M 20 Nut ($\frac{18}{2}$)	5	9		
SUBTOTAL 3			28		

GENERAL

1	Title & scale ($\frac{2}{2}$)	6	1		
	Symbol ($\frac{2}{2}$)	7	1		
	Center lines ($\frac{18}{2}$)	8	9		
	Cutting plane AA ($\frac{6}{2}$)	9	3		
	Auxiliary view (nut) (3)	10	3		
SUBTOTAL 4			17		
GRAND TOTAL			90		