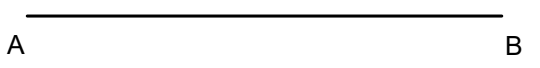
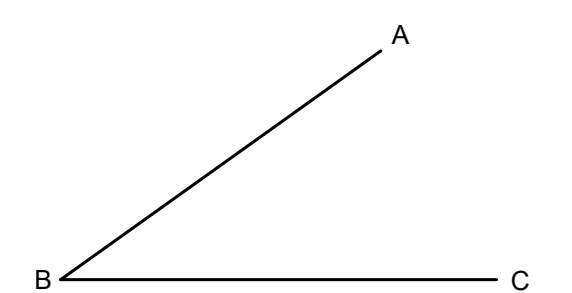


1 By means of construction, divide line segment AB equally and name the bisecting point C.



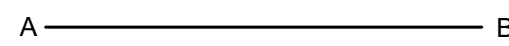
MARK OBTAINED	
MAXIMUM	4

2 Bisect, by means of construction, the angle A, B, C.



MARK OBTAINED	
MAXIMUM	4

3 Use line segment AB and determine, by means of construction, an angle of 60° at A.



MARK OBTAINED	
MAXIMUM	4

QUESTION: GEOMETRICAL CONSTRUCTIONS

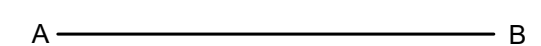
Given:
Several assignments with questions regarding geometrical constructions

Instructions:
Answer each question in the area provided.

Note:
Show all construction lines.
Marks will be subtracted for the following:

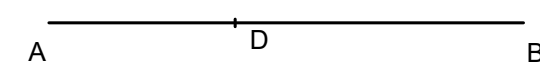
- untidy and wrong line quality
- mistakes on measuring with a tolerance larger than 1 mm. [60]

4 Use line segment AB and determine, by means of construction, an angle of 30° at A.



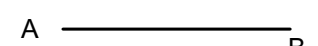
MARK OBTAINED	
MAXIMUM	5

5 Determine, by means of construction, from point D, a line, 90° towards line segment AB.




MARK OBTAINED	
MAXIMUM	5

6 Use line segment AB and determine, by means of construction, an angle of 45° at A.



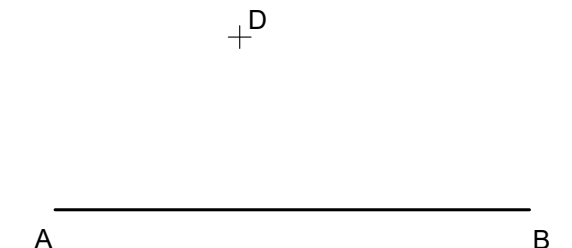
MARK OBTAINED	
MAXIMUM	6

7 Use line segment AB and determine, by means of construction, an angle of 120° at A.



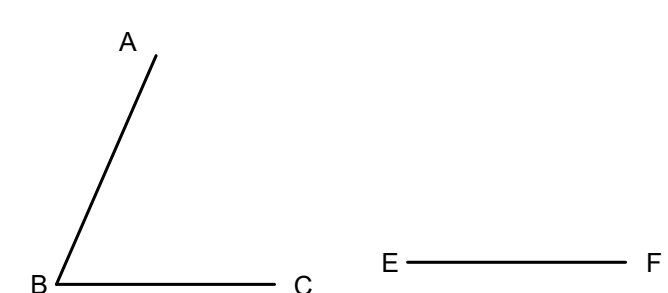
MARK OBTAINED	
MAXIMUM	4

8 Determine, by means of construction, from point D, a line 90° towards line segment AB.




MARK OBTAINED	
MAXIMUM	5

9 Copy, by means of construction, the same sized angle found at ABC towards line segment EF to form DEF.



MARK OBTAINED	
MAXIMUM	4

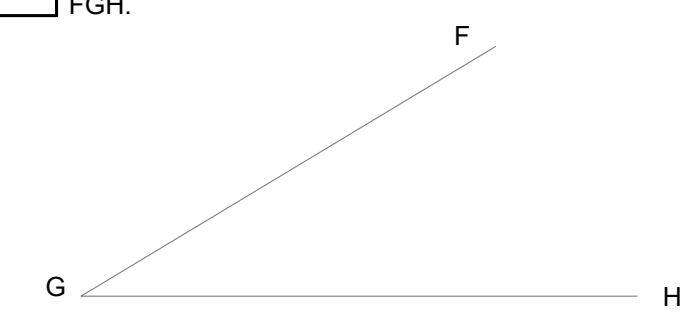
10 Use line segment GH and by means of construction, divide line segment GH in seven equal parts.



MARK OBTAINED	
MAXIMUM	4

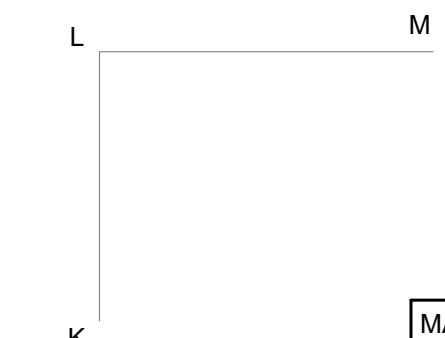
ASSESSMENT CRITERIA			
1	Bisecting a line	4	
2	Bisecting an angle	4	
3	Determine 60°	4	
4	Determine 30°	5	
5	Determine 90°	5	
6	Determine 45°	6	
7	Determine 120°	4	
8	Determine 90°	5	
9	Copy an angle	4	
10	Dividing a line	4	
11	Fillet	5	
12	Fillet	5	
13	Fillet	5	
TOTAL		60	

11 Determine a fillet with a radius of 10 mm (R10) at angle FGH.



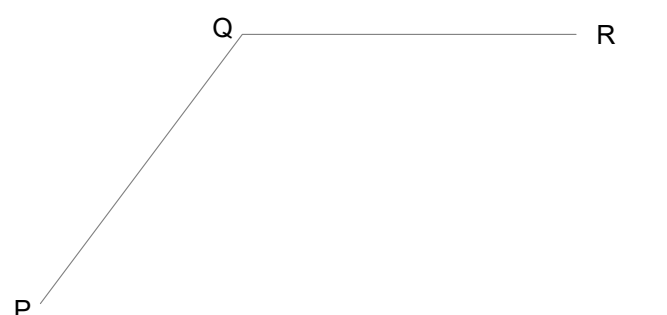
MARK OBTAINED	
MAXIMUM	5

12 Determine a fillet with a radius of 15 mm (R15) at angle KLM.



MARK OBTAINED	
MAXIMUM	5

13 Determine a fillet with a radius of 20 mm (R20) at angle PQR.



MARK OBTAINED	
MAXIMUM	5

