



**PROVINCIAL ASSESSMENT
March 2017**

GRADE 10

ENGINEERING GRAPHICS AND DESIGN

Initials & surname:

FOR OFFICE USE ONLY			
Marks	Moderator		
Question 1			
Question 2			
Total			
	50		50

INSTRUCTIONS AND INFORMATION

1. Learners have 1 hour to complete this paper.
2. Answer all the questions
3. ALL drawings must be drawn to scale 1:1, unless stated otherwise.
4. ALL questions must be answered on the QUESTION PAPER 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.
10. Plan each drawing carefully from the given position, which is indicated on the diagram sheets.
11. Any details or dimensions not given must be assumed in good proportion.

QUESTION 1.3.1

R •

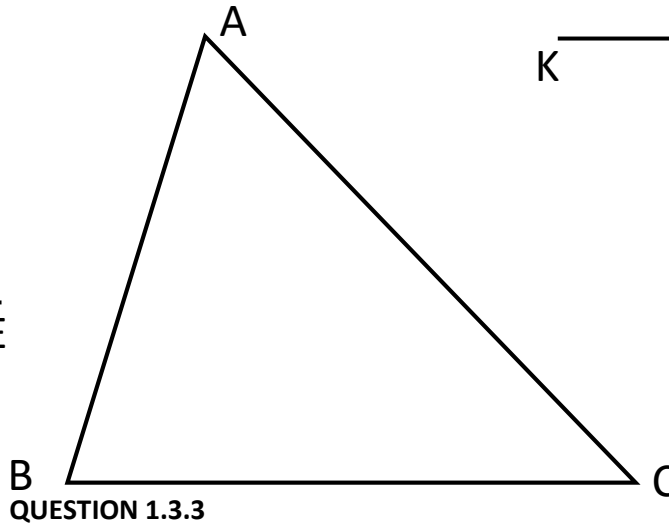
S •

T •

QUESTION 1.3.2

P •

D ————— E



QUESTION 1.3.4

K ————— L

QUESTION 1

Use this given page and answer the following questions:

- 1.1 Prepare this page with a frame. 4 ÷ 2 = (2)
- 1.2 Draw a title block and show your initials and surname, grade, date and question number. All lettering should be according to SANS 10111 4 mm in height. (4)
- 1.3 **By means of construction, draw on the given diagram sheet the following:**
- 1.3.1 A common arc including all three points R, S & T. (7)
- 1.3.2 A line from point P, 90° on line segment DE. (4)
- 1.3.3 An inscribed circle to an irregular triangle ABC. (9)
- 1.3.4 Divide line segment KL into FOUR equal parts. (9)

**Note: Name each intersection point determined.
Show all construction lines.**



Sub-total [35]