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SECTION A MARKS		
1	11	21
2	12	22
3	13	23
4	14	24
5	15	25
6	16	26
7	17	27
8	18	28
9	19	29
10	20	30

SECTION B	
1	
2	
3	
4	
SECTION C	
1	
COURSEWORK	
1	3
2	
TOTAL MARKS =	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2018

0067/1 TECHNICAL DRAWING

PAPER 1

Tuesday **5 June 2018** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so.

Write your school number, candidate number, surname and initials in the space provided.

You must attempt **ALL** sections of this booklet.

Constructional work in Geometry should be shown clearly for the solution of each problem.

Hidden details must be shown unless otherwise specified in the question.

SECTION A – Attempt all questions. Tick the box of the correct answer. You are advised to spend no more than 30 minutes on this section

SECTION B – Attempt all questions in the spaces provided.

SECTION C – Attempt this question on the folded sheet provided in this booklet.

SECTION A
(30 marks)

MULTIPLE CHOICE
15 pts

INSTRUCTIONS:

Please read each statement/question carefully then tick the box next to the letter of the correct answer.

1. The car views in figure 1 were drawn in:

- A ☐ 1st Angle projection
B ☐ 3rd Angle projection
C ☐ Isometric projection
D ☐ Oblique projection

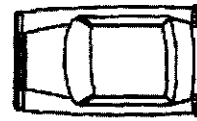


Figure 1

2. Which method is **not** used to construct an Ellipse?

- A ☐ Concentric
B ☐ Eccentric
C ☐ Foci
D ☐ Trammel

3. The diagram in figure 2 represents a /an _____ star to the circle.

- A ☐ Circumscribed
B ☐ Concentric
C ☐ Eccentric
D ☐ Inscribed

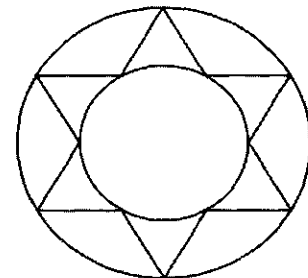
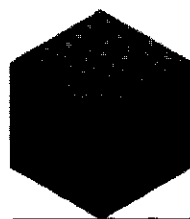


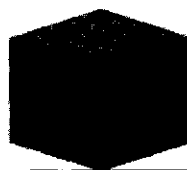
Figure 2

4. Which figure below represents an Isometric drawing?

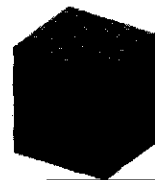
- A ☐
B ☐
C ☐
D ☐



A



B



C



D

5. The instrument in figure 3 is called a/an:

- A ☐ Compass
 B ☐ Divider
 C ☐ Protractor
 D ☐ Ruler

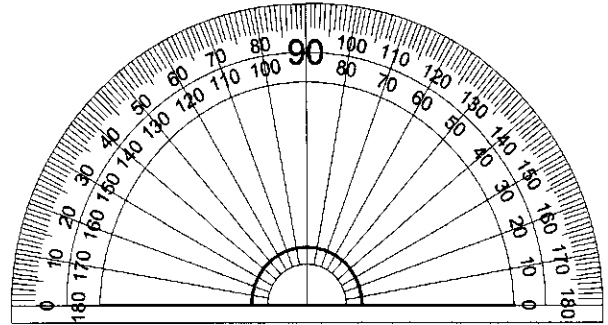


Figure 3

6. The leader line in figure 4 is pointing to a _____

- A ☐ Centre line
 B ☐ Cutting plane line
 C ☐ Hidden line
 D ☐ Section line

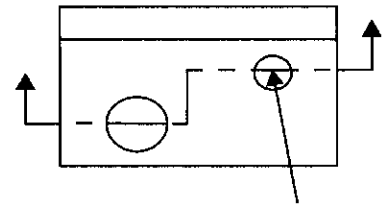


Figure 4

7. In Orthographic projection HP symbol means:

- A ☐ Horizontal Plane
 B ☐ Horizontal Projection
 C ☐ Profile Plane
 D ☐ Vertical Plane

8. A triangle in figure 5 below, given sides $CB = 87$, $AB = AC = 72$ mm is called a/an _____ triangle.

- A ☐ Isosceles
 B ☐ Obtuse
 C ☐ Right Angle
 D ☐ Scalene

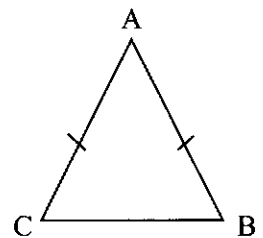


Figure 5

9. A/an _____ line is formed when a horizontal line meets a vertical line at a point:

- A ☐ Intersection
 B ☐ Parallel
 C ☐ Perpendicular
 D ☐ Tangent

10. The value of x in figure 6 is

- A ☐ 100°
- B ☐ 108°
- C ☐ 90°
- D ☐ 120°

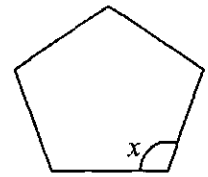


Figure 6

11. In figure 7, the line touching circles A and B is a/an:

- A ☐ External tangent
- B ☐ Internal tangent
- C ☐ Parallel line
- D ☐ Perpendicular line



Figure 7

12. Which dimension arrowhead is drawn correctly?

- A ☐
- B ☐
- C ☐
- D ☐



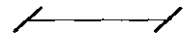
A



B



C



D

13. In figure 8, the chord AB is _____ to chord CD.

- A ☐ Perpendicular
- B ☐ Parallel
- C ☐ Tangent
- D ☐ Intersect

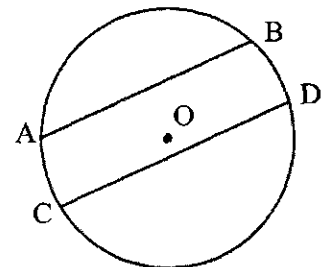


Figure 8

14. The instrument shown in figure 9, is called a/an:

- A ☐ Drafting Brush
- B ☐ Drafting Cleaning Bag
- C ☐ Erasing Shield
- D ☐ Template

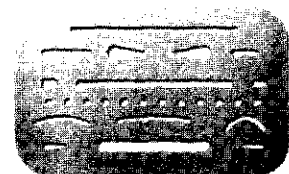


Figure 9

15. The marble in figure 10, is a **geometrical solid** of a/an:

- A ☐ Circle
- B ☐ Cone
- C ☐ Oval
- D ☐ Sphere

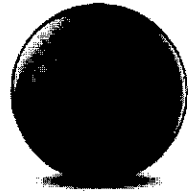
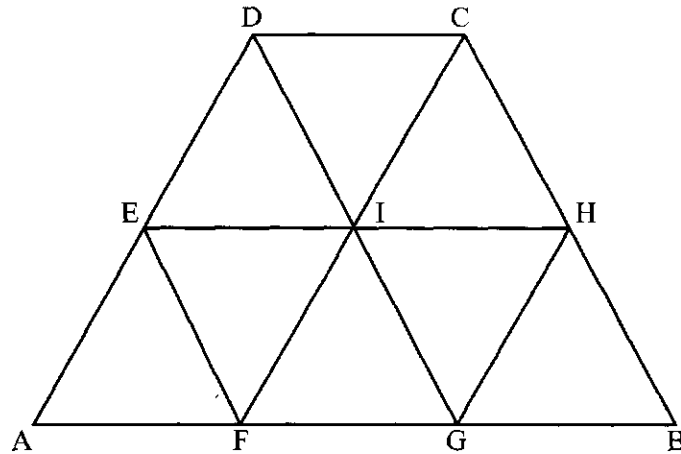


Figure 10

MATCHING
5 pts

Use the given diagram to match Column A with Column B.



	COLUMN A	Answer column	COLUMN B
16.	ABCD		A Triangle
17.	AFCB		B Hexagon
18.	CDEFGH		C Trapezium
19.	EFI		D Rhombus
20.	HIGB		E Parallelogram

TRUE OR FALSE
5 pts

Circle 'T' if the statement is true or 'F' if the statement is false.

	True	False
21. A horizontal line goes from east to west.	T	F
22. A sector is an enclosed segment and arc.	T	F
23. A Scalene triangle has two equal angles.	T	F
24. A compass transfers measurements.	T	F
25. An angle has a vertex which holds two straight lines at a point.	T	F

FILL IN THE BLANKS
5 pts

Fill in the blank space of each sentence with the correct answer.

26. A _____ is the term given to a line that divides an object into equal parts.
27. A/an _____ is a round pathway that completes 360°.
28. A/an _____ is a quadrilateral with two pairs of unequal sides. All angles are equal.
29. A/an _____ is the required instrument used to measure lines.
30. A _____ ensures the corner of an angle is smoothly curved.

SECTION B

GEOMETRICAL CONSTRUCTION

(40 marks)

INSTRUCTIONS:

Attempt **ALL** questions in the spaces provided. Show **ALL** geometrical construction. **ALL** measurements are in millimetres.

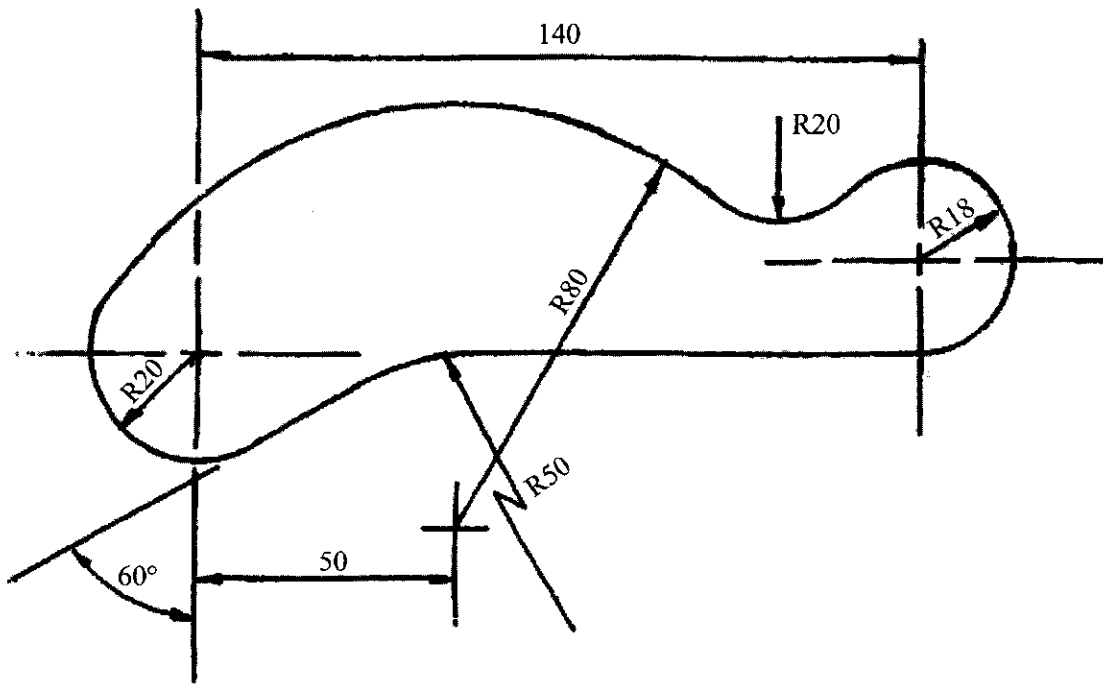
1. Plot the angle BAC.
Line $AB = AC = 65$ mm. Angle at A = 92° .
 - (a) Bisect Angle BAC into four (4) equal parts.
 - (b) State each bisected angle.
 - (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____

2. Construct an inscribe circle to a triangle.
AB 70 mm, BC = 65 mm and CA = 80 mm.

Name the triangle. _____

3. Construct a regular pentagon with side lengths 60 mm.

4. Draw the diagram below to a scale of 1:1 showing the construction used to determine the centres of the five arcs.



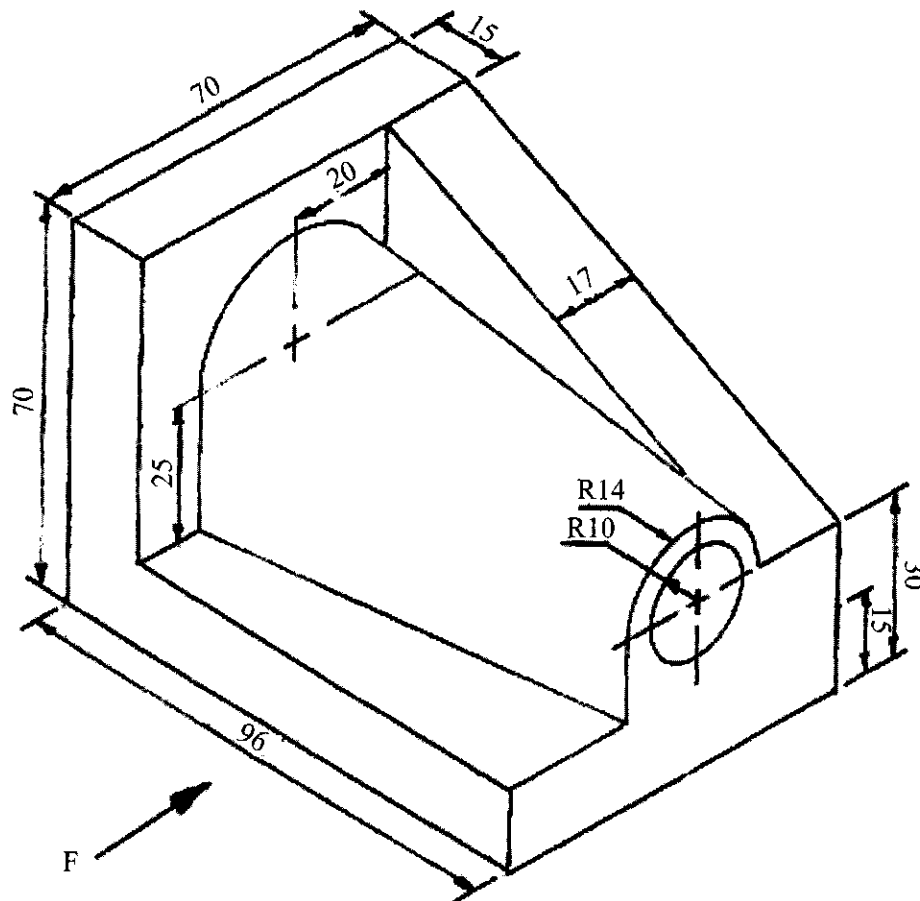
SECTION C
ORTHOGRAPHIC PROJECTION
(30 marks)

INSTRUCTIONS:

Print your surname, initials, school number, candidate number and drawing name in the title block of the sheet provided. The blank drawing sheet is detachable and may be taken off.

Use the sheet and draw full size in THIRD ANGLE PROJECTION the following views of the Shaped Block below.

- (a) A front view looking from the direction of arrow "F".
- (b) A plan in projection with the front (a).
- (c) An end view in projection with the front view.
- (d) Show all hidden details.
- (e) Name each view.
- (f) Show six (6) dimensions.



Shaped Block

UNFOLD PAGE

BLANK PAGE

BLANK PAGE

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