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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 2016

0067/1 TECHNICAL DRAWING

PAPER 1

Tuesday **7 June 2016** 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. Shade 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

MULTIPLE CHOICE
(30 marks)

INSTRUCTIONS:

Read each statement/question carefully, then shade the box next to the letter of the correct answer.

1. Which lettering style is used in Technical Drawing?

- A ☐ Script
 B ☐ Roman
 C ☐ Single Stroke Gothic
 D ☐ Times New Roman

2. Which pencil lead image in figure 1 is a soft pencil grade?

- A ☐ H
 B ☐ HB
 C ☐ 5B
 D ☐ 6H



Figure 1

3. Which diagram in figure 2 below shows the correct way of holding the compass when drawing a circle?

- A ☐
 B ☐
 C ☐
 D ☐

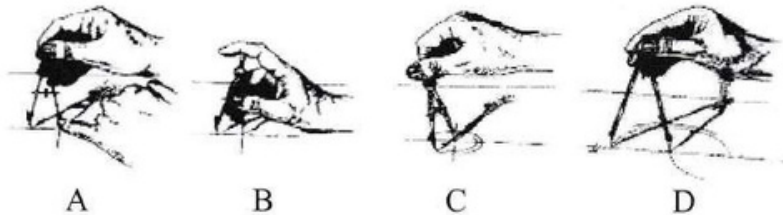


Figure 2

4. Figure 3 below shows a circle and triangle together. What is the correct name for this type of geometrical drawing?

- A ☐ circumscribed circle to a triangle
 B ☐ escribed circle to a triangle
 C ☐ inscribed circle to a triangle
 D ☐ tangential triangles to a circle

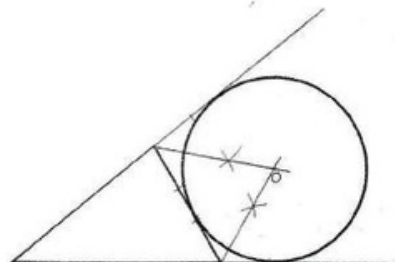


Figure 3

5. Identify the method used to construct the ellipse in figure 4 below.

- A ☐ concentric method
 B ☐ foci method
 C ☐ rectangle method
 D ☐ trammel method

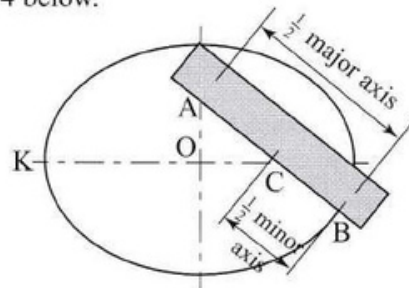


Figure 4

6. The key in figure 5 below measures:

- A ☐ 3.03 mm
 B ☐ 3.3 mm
 C ☐ 33 mm
 D ☐ 330 mm

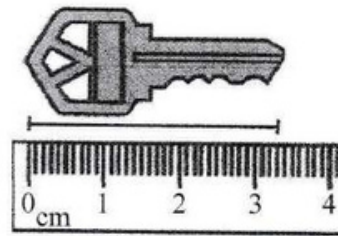


Figure 5

7. The drafting symbol shown in figure 6 below is called:

- A ☐ a chord
 B ☐ a circumference
 C ☐ a diameter
 D ☐ a radius

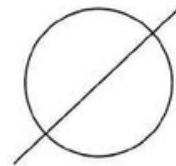


Figure 6

8. Figure 7 shows parts of a circle. Identify the line labelled XY.

- A ☐ chord
 B ☐ diameter
 C ☐ radius
 D ☐ tangent

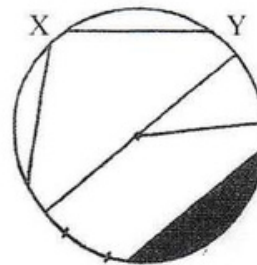


Figure 7

9. What is the name of line BD in figure 8 below?

- A ☐ bisector line
 B ☐ divider line
 C ☐ mirror line
 D ☐ parallel line

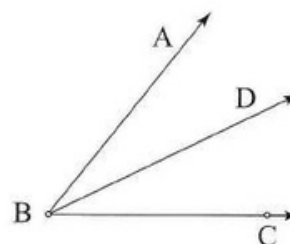


Figure 8

10. The symbol below in figure 9 indicates that a drawing is drawn in:

- A ☐ First Angle projection
 B ☐ Isometric projection
 C ☐ Oblique projection
 D ☐ Third Angle projection

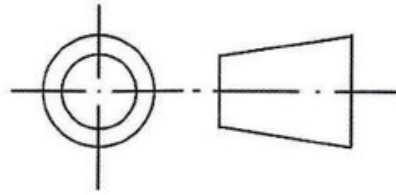


Figure 9

11. Figure 10 below shows an image of which plan figure:

- A ☐ irregular pentagon
 B ☐ irregular polygon
 C ☐ irregular quadrilateral
 D ☐ trapezium

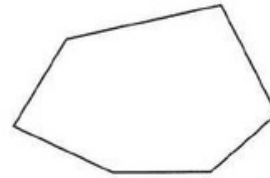


Figure 10

12. The protractor shown below in figure 11 measures angles. It is divided into how many degrees?

- A ☐ 90°
 B ☐ 180°
 C ☐ 270°
 D ☐ 360°

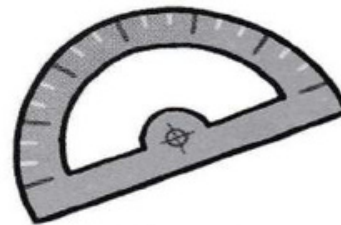


Figure 11

13. Identify the geometric solid in figure 12 below:

- A ☐ square pyramid
 B ☐ square prism
 C ☐ triangular prism
 D ☐ triangular pyramid

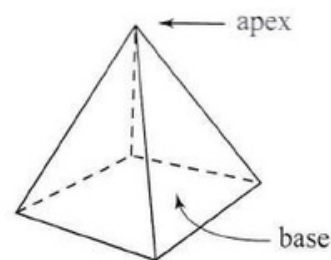


Figure 12

14. If you were asked to draw a 60 mm radius circle at 30 mm radius. What scale must be used to get the correct size?

- A ☐ 1:2
 B ☐ 1:3
 C ☐ 2:1
 D ☐ 3:1

15. Identify the angle of the lines that are drawn on the drafting board in figure 13 below.

- A ☐ 30° angle lines
B ☐ 45° angle lines
C ☐ 60° angle lines
D ☐ 180° angle lines

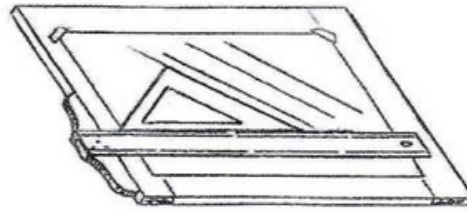
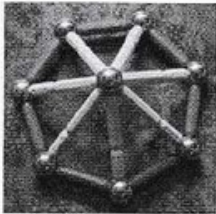
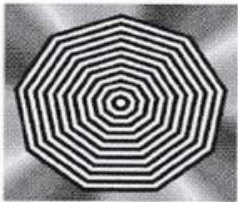


Figure 13

MATCHING

The five photographs below are in the form of geometric shapes. Match each picture in column "A" with the correct geometric name in column "B" by writing the **letter** in the answer columns for questions 16 through 20.

	COLUMN "A"	Answer	COLUMN "B"
16.			A Hexagon
17.			B Nonagon
18.			C Octagon
19.			D Heptagon
20.			E Pentagon

TRUE OR FALSE

Write **T** in the true column if the statement is true or **F** in the false column if the statement is false for questions 21 through 25.

21. On a polygon drawing A/F means across front.
22. When constructing an ellipse diagonal line can be used.
23. A trapezium is a quadrilateral with one pair of opposite sides parallel.
24. A set square is used to draw horizontal lines.
25. A sector is an enclosed chord.

True	False

SHORT ANSWER QUESTIONS

Fill in the blanks with the correct answer for each sentence in questions 26–30.

26. When bisecting a line one must set the compass to approximately _____ the line length.
27. Circles that have one common centre but are different in sizes are called _____ circles.
28. The area drawn at the bottom of the drawing paper where information is printed is called the _____.
29. The lines that make up the shape of a drawing are called _____ lines.
30. Perpendicular lines meet at _____ to each other.

SECTION B

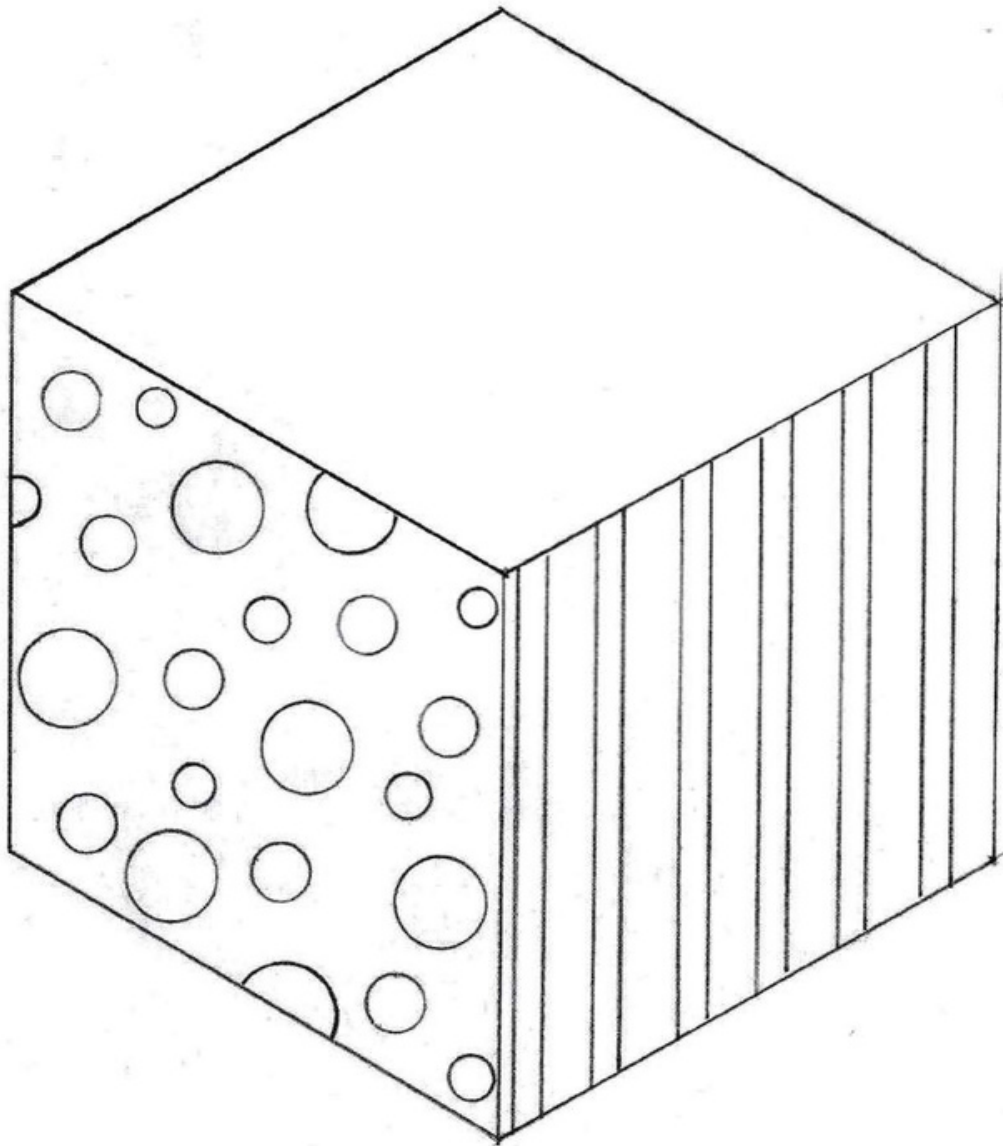
GEOMETRICAL CONSTRUCTION

(40 marks)

INSTRUCTIONS:

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

1. The drawing below shows a facial tissue box with designs on two sides. Using a compass, construct an isometric circle on the blank surface of the box. [6]



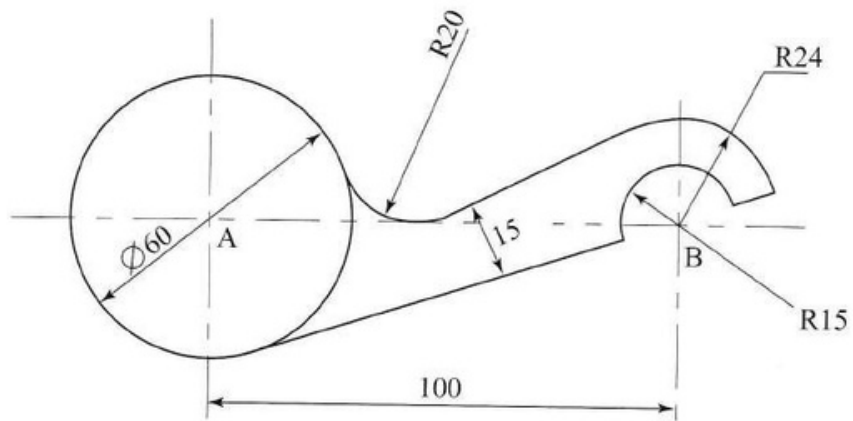
2. (a) Construct a right-angled triangle with the hypotenuse $AC = 90\text{ mm}$ and one side $CB = 45\text{ mm}$.
(b) What is the measurement of the angle at "A"?

Answer: _____

[8]

4. Use the given centre line and construct the figure below to a scale of full size.

[13]



SECTION C

ORTHOGRAPHIC PROJECTION
 (30 marks)
INSTRUCTIONS:

The blank sheet is detachable and may be taken off.

Print your surname, initials, school number, candidate number and the drawing name in the title block of the sheet of paper.

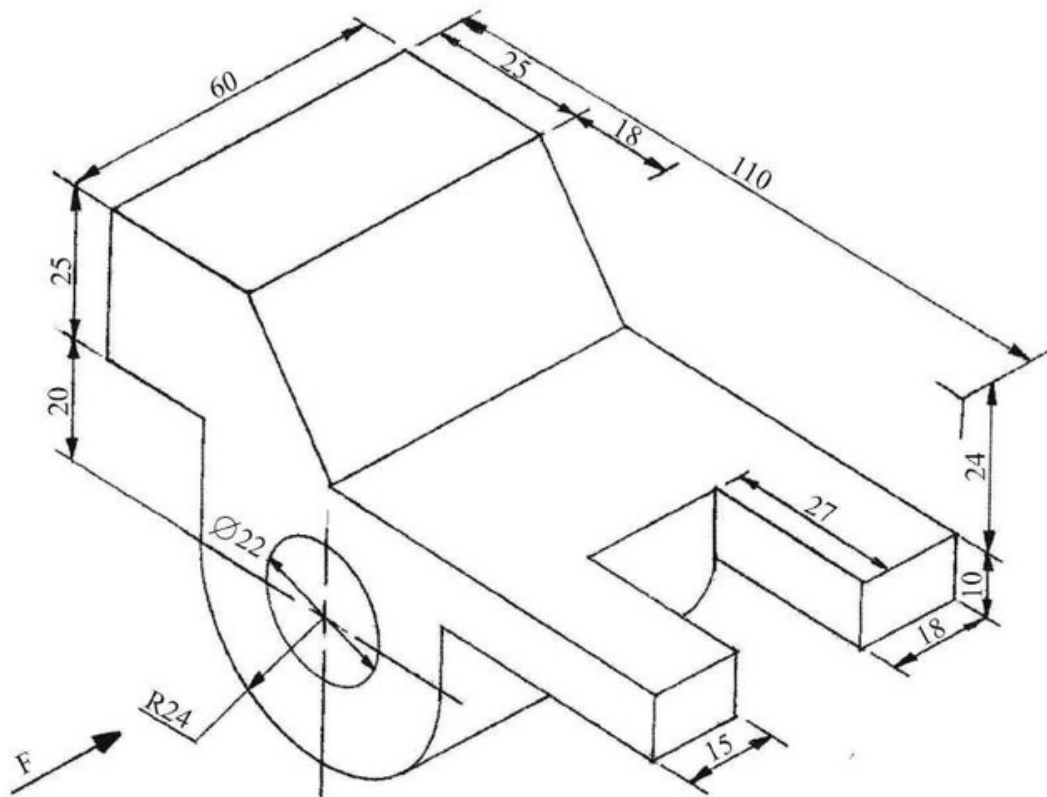
Use the sheet and draw full size in **THIRD ANGLE PROJECTION** the following views of the Shaped Block below:

- (a) A front view looking from the direction of arrow "F".
- (b) A plan in projection with (a).
- (c) An end view in projection with the front view.

Show all hidden details.

Name each view.

Show **SIX** dimensions.



SHAPED BLOCK

SURNAME & INITIALS	CANDIDATE No.

	SCHOOL No.	DRAWING NAME

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