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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 2019

0067/1 TECHNICAL DRAWING

PAPER 1

Wednesday **5 June 2019** 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 or question carefully, then tick the box of the correct answer.

1. The symbols | and || on the sides of the quadrilateral in figure 1 means it is:

- A ☐ Equal
B ☐ Not Equal
C ☐ Parallel
D ☐ Right Angle

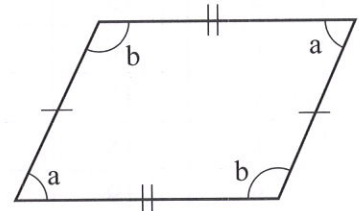


Figure 1

2. To construct arc AB of an isometric circle shown in figure 2, the compass point must be placed on point:

- A ☐ 1
B ☐ 2
C ☐ 3
D ☐ 4

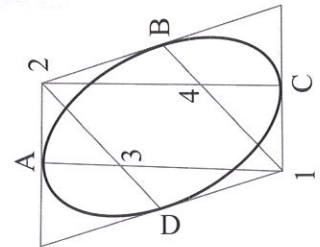


Figure 2

3. Receding lines of an Oblique Cabinet drawing in figure 3 is drawn at _____ length.

- A ☐ Full
B ☐ Half
C ☐ Quarter
D ☐ Three-Quarter

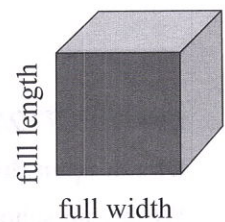


Figure 3

4. Points A and B in figure 4 are called a/an:

- A ☐ Altitude
B ☐ Apex
C ☐ Vertices
D ☐ Vertical Angle

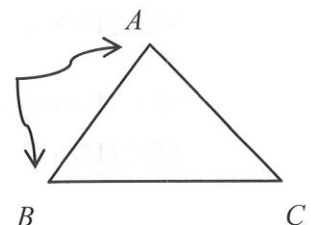


Figure 4

5. Borders are drawn _____ from the edge of the paper.

- A ☐ 5 mm
 B ☐ 10 mm
 C ☐ 15 mm
 D ☐ 20 mm

6. Figure 5, represents the AO drawing paper divided into smaller sheets of drawing paper. Identify the A2 sheet.

- A ☐ i
 B ☐ ii
 C ☐ iii
 D ☐ iv

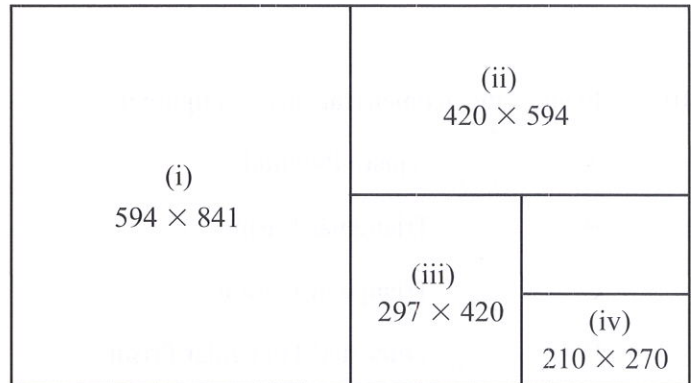


Figure 5

7. The image in figure 6 is created from a series of:

- A ☐ Circles and Tangents
 B ☐ Circles and Tangential Arcs
 C ☐ Ellipses and Tangents
 D ☐ Ellipses and Tangential Arcs



Figure 6

8. The edge of the shape in figure 7 forms a/an:

- A ☐ Hexagon
 B ☐ Heptagon
 C ☐ Nonagon
 D ☐ Octagon

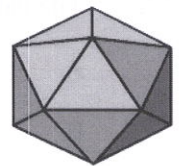


Figure 7

9. Which image in Figure 8 is an obtuse angle?

- A ☐ i
 B ☐ ii
 C ☐ iii
 D ☐ iv



(i)



(ii)



(iii)



(iv)

Figure 8

10. Identify the geometrical shape in figure 9.

- A ☐ Square Pyramid
 B ☐ Triangular Prism
 C ☐ Triangular Pyramid
 D ☐ Truncated Triangular Prism

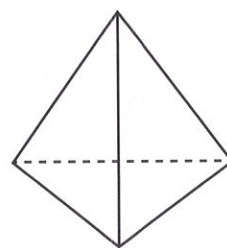


Figure 9

11. The train on the track in figure 10 forms a/an _____ on the circumference of a circle:

- A ☐ Arc
 B ☐ Chord
 C ☐ Radius
 D ☐ Tangent

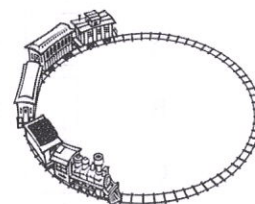


Figure 10

12. The pattern in figure 11 is made up of a combination of:

- A ☐ Equilateral triangles
 B ☐ Isosceles triangles
 C ☐ Obtuse Triangles
 D ☐ Scalene triangles

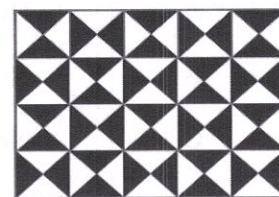


Figure 11

13. The set square in figure 12 is used with a T-Square to draw _____, _____ and _____ angles:

- A ☐ $45^\circ, 90^\circ, 180^\circ$
 B ☐ $30^\circ, 60^\circ, 90^\circ$
 C ☐ $45^\circ, 45^\circ, 90^\circ$
 D ☐ $30^\circ, 60^\circ, 180^\circ$

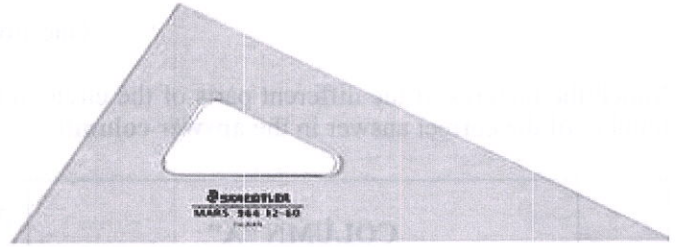


Figure 12

14. Name the angle which was constructed at AOE in figure 13.

- A ☐ 60°
 B ☐ 90°
 C ☐ 120°
 D ☐ 135°

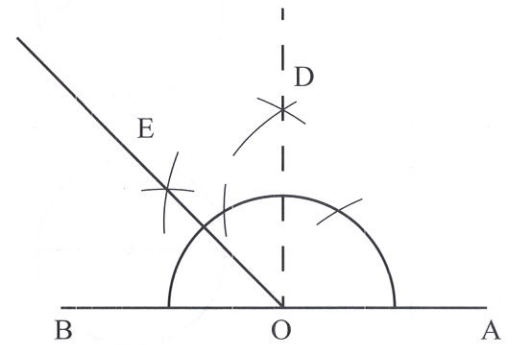


Figure 13

15. What angle was constructed at QOP in figure 14?

- A ☐ 30°
 B ☐ 60°
 C ☐ 75°
 D ☐ 90°

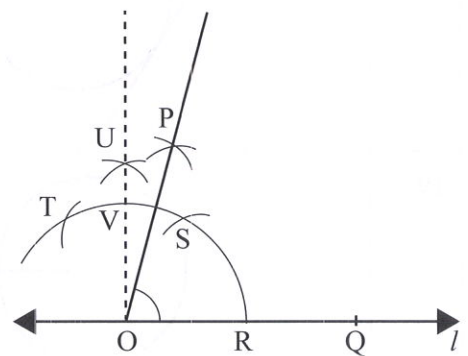
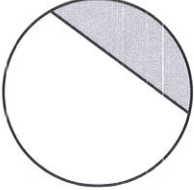
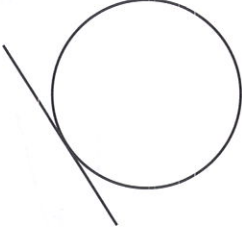
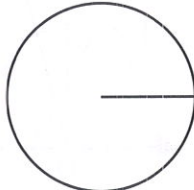
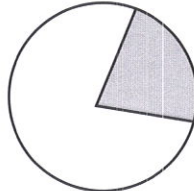


Figure 14

MATCHING

Questions 16–20

Match the pictures of the different parts of the circle in Column A with the correct names in Column B. Write the number of the correct answer in the **answer column**.

	COLUMN "A"	Answer column	COLUMN "B"
16.			i. Diameter
17.			ii. Radius
18.			iii. Sector
19.			iv. Segment
20.			v. Tangent
			vi. Concentric circle

TRUE OR FALSE

Questions 21–25

Circle “**T**” if the statement is **True**, or “**F**” if the statement is **False**.

	True	False
21. Hidden lines are evenly dash lines.	T	F
22. A compass transfers measurements.	T	F
23. The geometrical shape of a starfish is a polygon.	T	F
24. A rhombus has four equal sides and angles.	T	F
25. An isosceles triangle has two equal sides.	T	F

FILL IN THE BLANKS

Questions 26–30

Instruction: Use the following words to fill in the blank spaces.

SQUARE	VERTICAL	PHANTOM	PENTAGON	DIAMETER
RECTANGLE	HIDDEN	HEXAGON	OCTAGON	SEMICIRCLE

Read the **RIDDLES** below then answer the questions, **WHO AM I?**

26. I am the ghost on Scooby Doo **floating** through the walls, who am I? I am _____ line.
27. I am the lamp pole alongside the road, who am I? I am a _____ line.
28. I am the face of a cube, who am I? I am a _____.
29. George ate half of mothers’ pound cake, who am I? I am a _____.
30. I am the STOP sign on the street, who am I? I am a _____.

SECTION B

GEOMETRICAL CONSTRUCTION
(40 marks)**INSTRUCTIONS:**

Attempt **ALL** questions in the spaces provided.

Show **ALL** geometrical construction.

ALL measurements are in millimetres.

1. Using the shelf drawn in oblique projection below, state the required measurements.

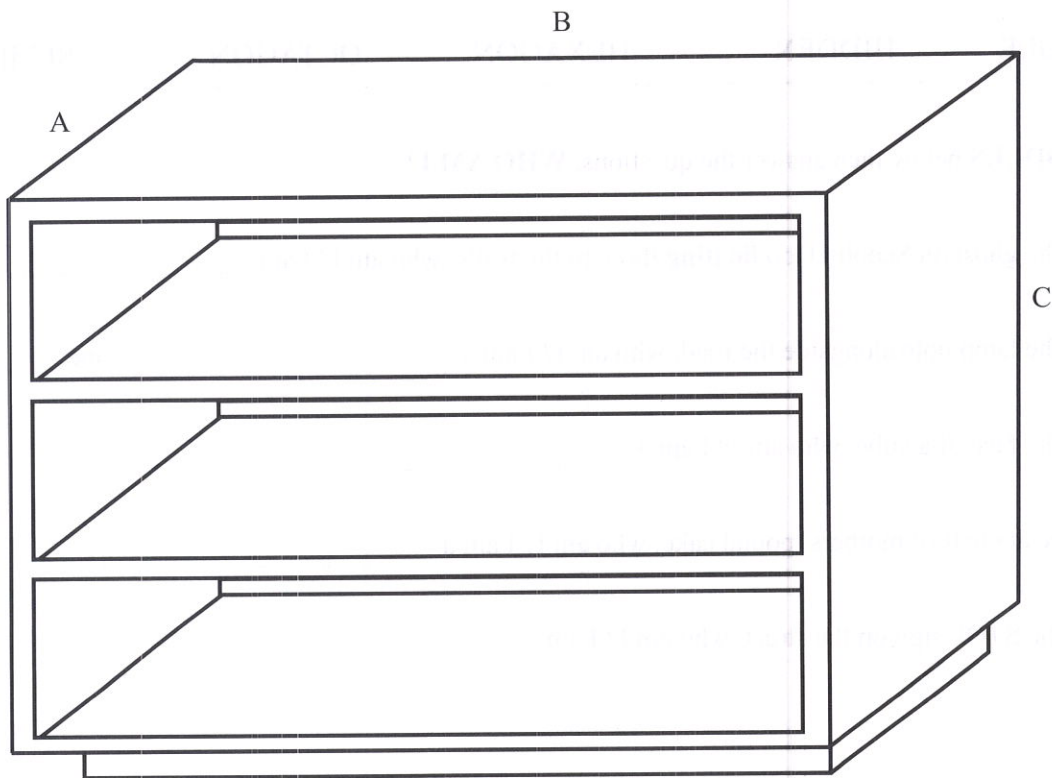
(a) Measure the sides A, B and C of the shelf drawn in oblique projection.

A _____ mm

B _____ mm

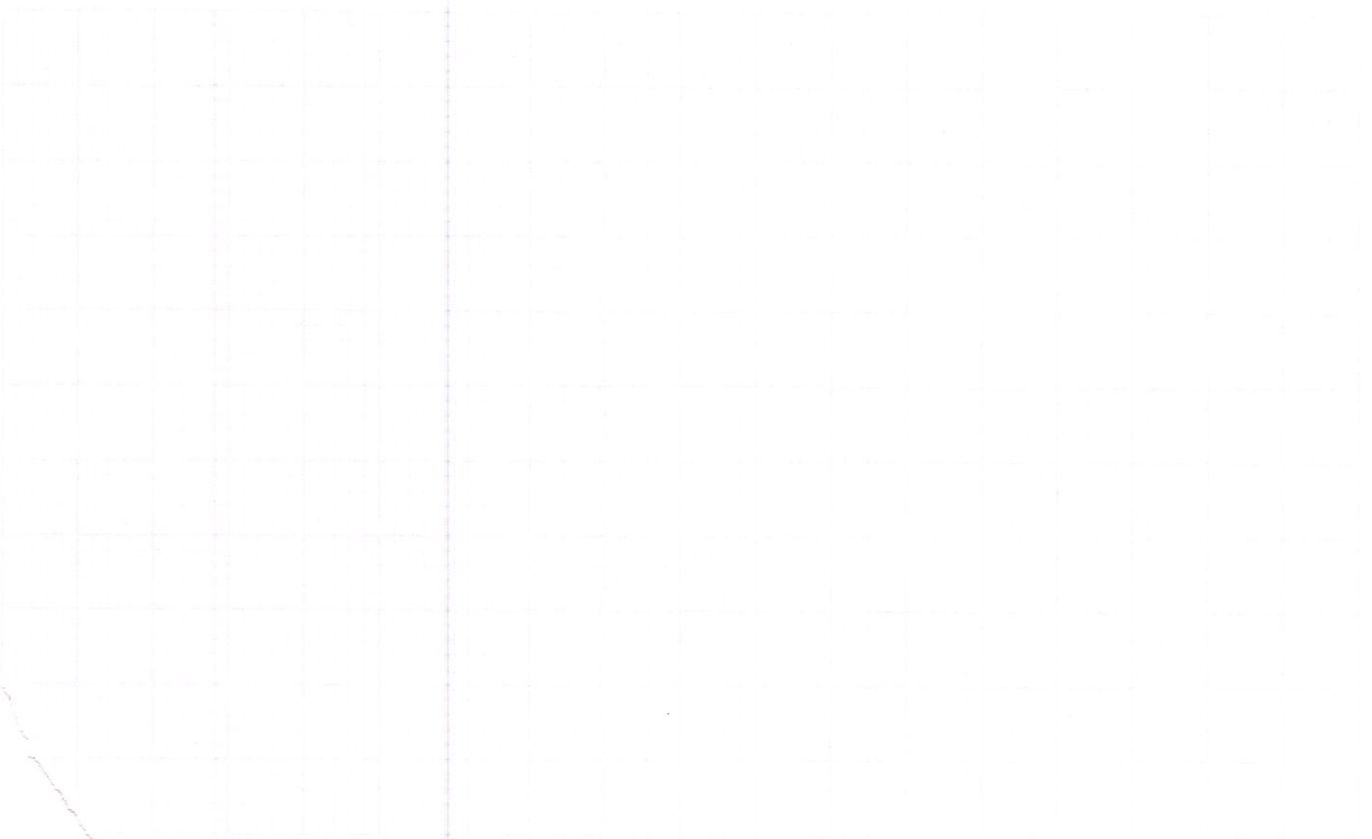
C _____ mm

(b) Using the measurements above, dimension the sides A, B and C of the shelf drawn in oblique projection below.



2. Construct a Rhombus. $AB = 75 \text{ mm}$. Angle at $B = 105^\circ$.

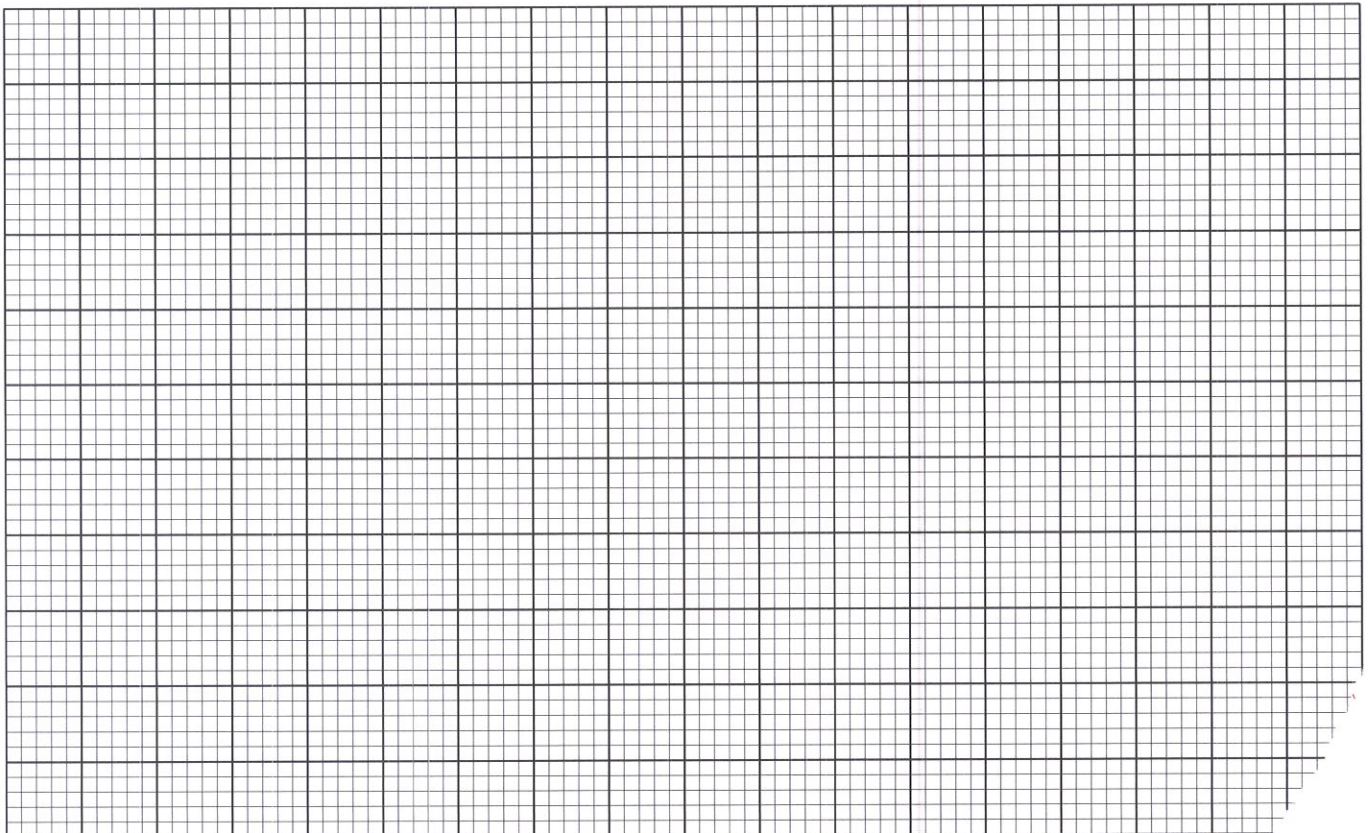
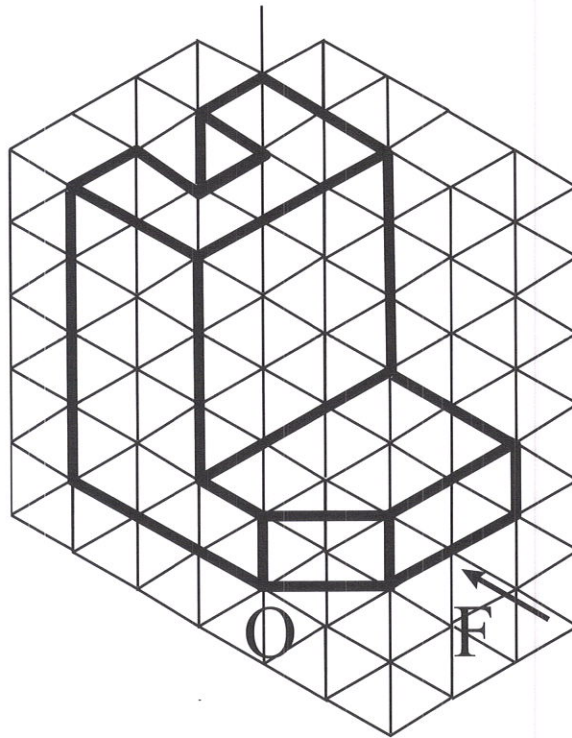
- (a) What is the value of the angle at B ?
- (b) What is the measurement of line BC ?



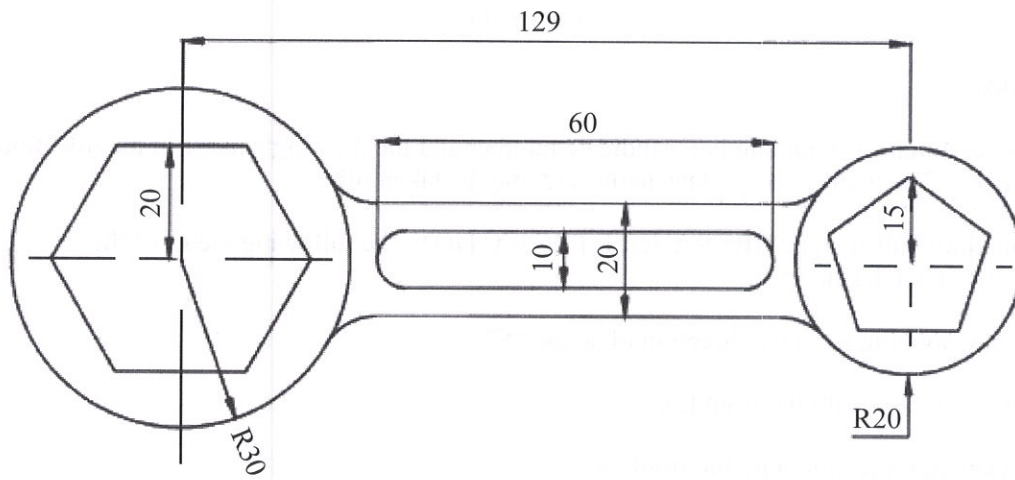
3. Figure 3 shows a Pictorial drawing. Using the grid, SKETCH a full size ORTHOGRAPHIC VIEWS of the Block in THIRD ANGLE projection.

Point "O" is the lowest point on the figure.

1 BLOCK = 10mm



4. The diagram below shows a simple design from Google. Construct the drawing to scale.



SECTION C

ORTHOGRAPHIC PROJECTION
 (30 marks)
INSTRUCTIONS:

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

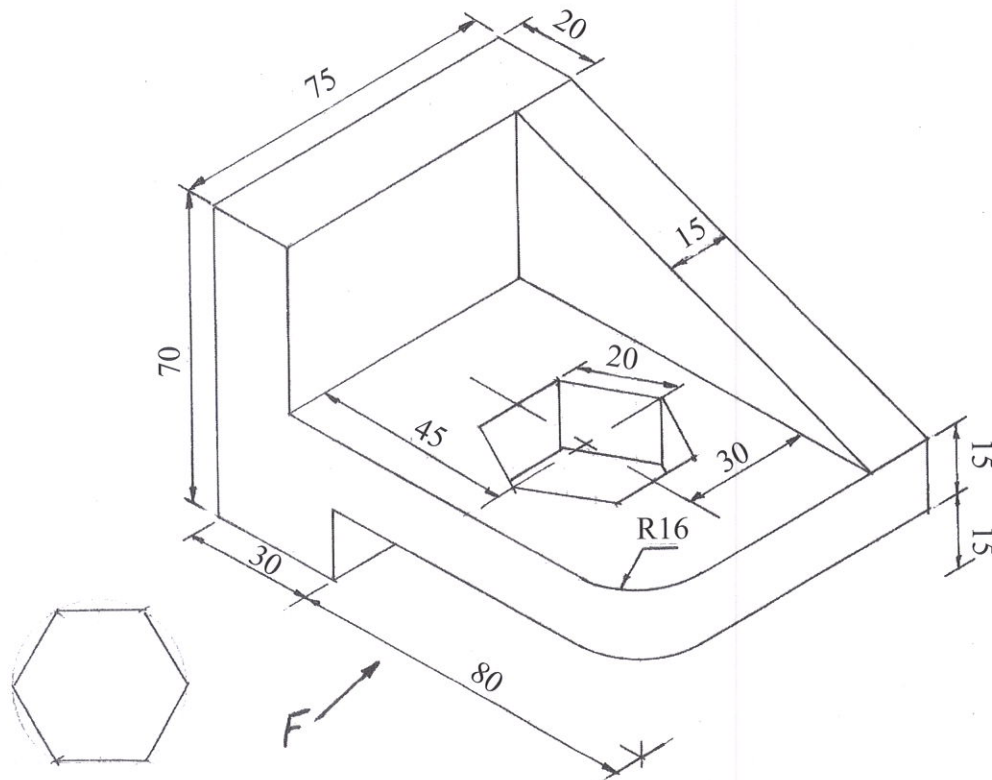
Use the sheet and draw full size, in FIRST ANGLE PROJECTION, the following views of the HEXAGONAL BRACKET below.

- (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.

Show all hidden details.

Name each view.

Show six (6) dimensions.



HEXAGONAL BRACKET

UNFOLD PAGE

BLANK PAGE

BLANK PAGE

BLANK PAGE