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FOR EXAMINERS' USE ONLY		
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 2015

0067/1 TECHNICAL DRAWING

PAPER 1

Tuesday **2 June 2015** 1:00 P.M.–3:00 P.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 spaces 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. The type of line used to keep letters and words uniform when printing in Technical Drawing is called:

- A ☐ boundary lines
 B ☐ guide lines
 C ☐ irregular line
 D ☐ outline lines

2. What is the name of the drawing instrument in figure 1 below?

- A ☐ circle template
 B ☐ divider
 C ☐ protractor
 D ☐ semi-circle

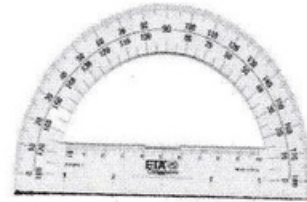


Figure 1

3. When two straight lines meet at a point what plane figure is formed?

- A ☐ an altitude
 B ☐ an angle
 C ☐ a bisector
 D ☐ a tangent

4. The iPod in figure 2 is shaped like a:

- A ☐ rectangle
 B ☐ rhombus
 C ☐ square
 D ☐ trapezium



Figure 2

5. When bisecting a line, the compass should be set to a radius that is:

- A ☐ equal to the line length
 B ☐ half of the line length
 C ☐ less than half the length of the line
 D ☐ more than half the length of the line

6. In Drafting a line that is made up of a series of short dashes is call a:

- A ☐ centre line
 B ☐ dimension line
 C ☐ hidden line
 D ☐ phantom line

7. Identify the triangle that has one side that is a hypotenuse in figure 3 below.

- A ☐
 B ☐
 C ☐
 D ☐

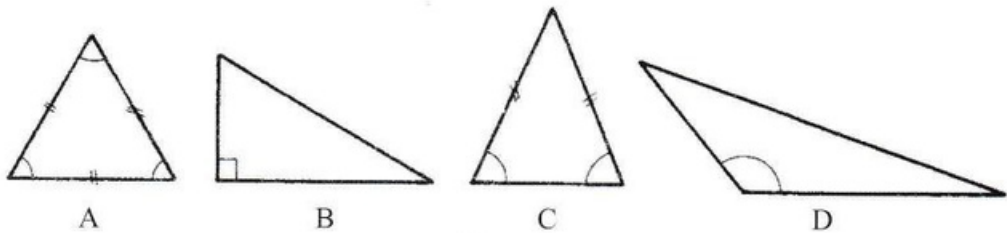


Figure 3

8. What geometrical figure does the doughnut in figure 4 look like?

- A ☐ concentric circle
 B ☐ eccentric circle
 C ☐ ellipse
 D ☐ oval

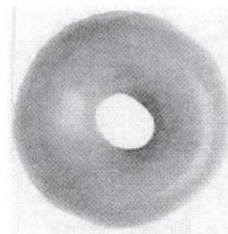


Figure 4

9. If you were asked to construct the design of the rim on the tyre in figure 5 below, you would be constructing a/an:

- A ☐ heptagon
 B ☐ hexagon
 C ☐ nonagon
 D ☐ octagon



Figure 5

10. Identify the truncated triangular prism in figure 6 below:

- A ☐
- B ☐
- C ☐
- D ☐

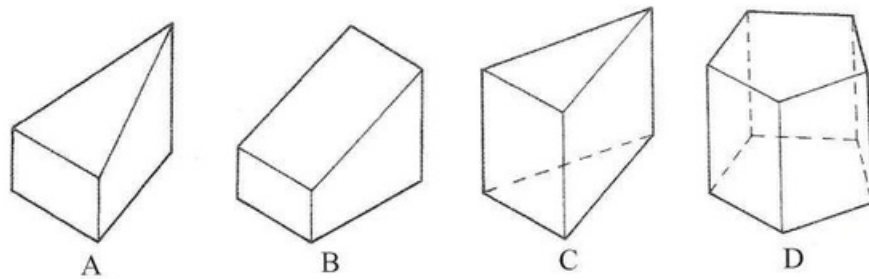


Figure 6

11. Figure 7 shows a pictorial drawing of a bookcase drawn in:

- A ☐ cabinet projection
- B ☐ cavalier projection
- C ☐ isometric projection
- D ☐ orthographic projection

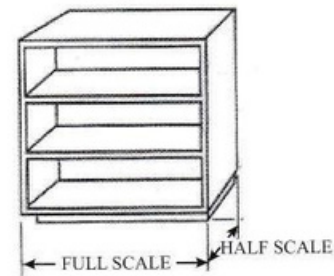


Figure 7

12. Figure 8 shows a multi-view drawing in third angle projection, which view represents the left end view?

- A ☐
- B ☐
- C ☐
- D ☐

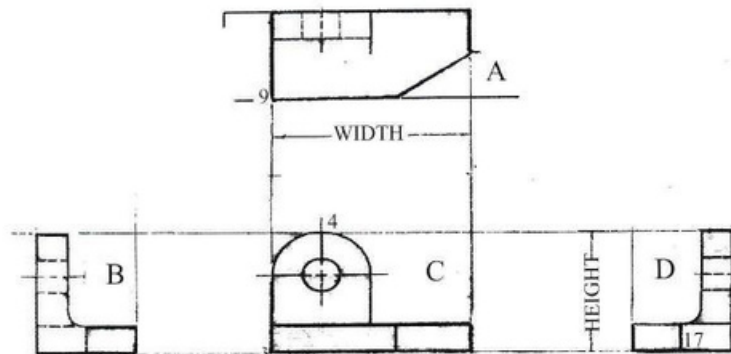


Figure 8

13. A figure that is drawn using a scale of 2:1 means that the drawing is:

- A ☐ full size
- B ☐ half full size
- C ☐ three times full size
- D ☐ two times full size

14. Figure 9 below shows a football. Which geometrical figure is best to use if you had to draw the football?

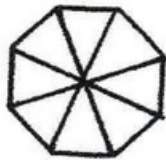
- A ☐ circle
B ☐ diamond
C ☐ ellipse
D ☐ oval



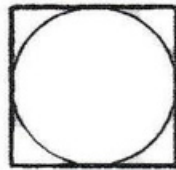
Figure 9

15. Which of the following drawings in figure 10 would correctly represent the plan of a hexagonal base pyramid?

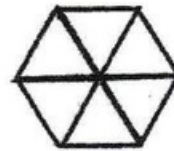
- A ☐
B ☐
C ☐
D ☐



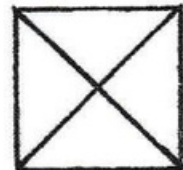
A



B



C

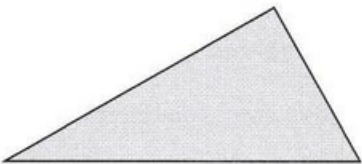
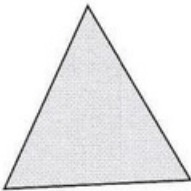
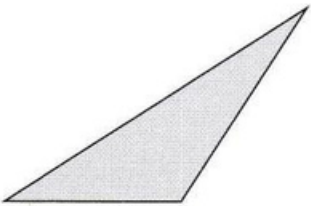
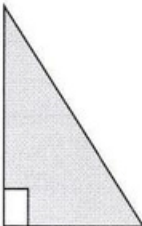


D

Figure 10

MATCHING

Match the pictures of the plane triangular figures in column C with the correct names in column D by writing the letter in the answer column for questions 16 through 20.

	COLUMN "C"	Answer	COLUMN "D"
16.			A Equilateral
17.			B Isosceles
18.			C Scalene
19.			D Right-angle
20.			E Obtuse

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.

	True	False
21. When dimensioning, the arrowheads should touch extension lines.		
22. Section lines are also called Hatching lines.		
23. Projection lines are only drawn at 45°		
24. A segment is an enclosed area between the arc and the chord.		
25. The prefix "Bi" in the term Bisect means three.		

FILL IN THE BLANKS

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

26. A _____ is the distance from one point of the circumference passing through the centre to the opposite end of the circumference.
27. A _____ is a plane figure with five unequal sides.
28. A/An _____ is used to guide the eraser when removing errors in drafting.
29. The axis of the _____ projection drawing is drawn using 30° lines and vertical lines.
30. An orthographic projection drawing is also called a _____ drawing.

SECTION B**GEOMETRICAL CONSTRUCTION**

(40 marks)

INSTRUCTIONS:

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

1. Construct a perpendicular line from point 'P' to the given line AB

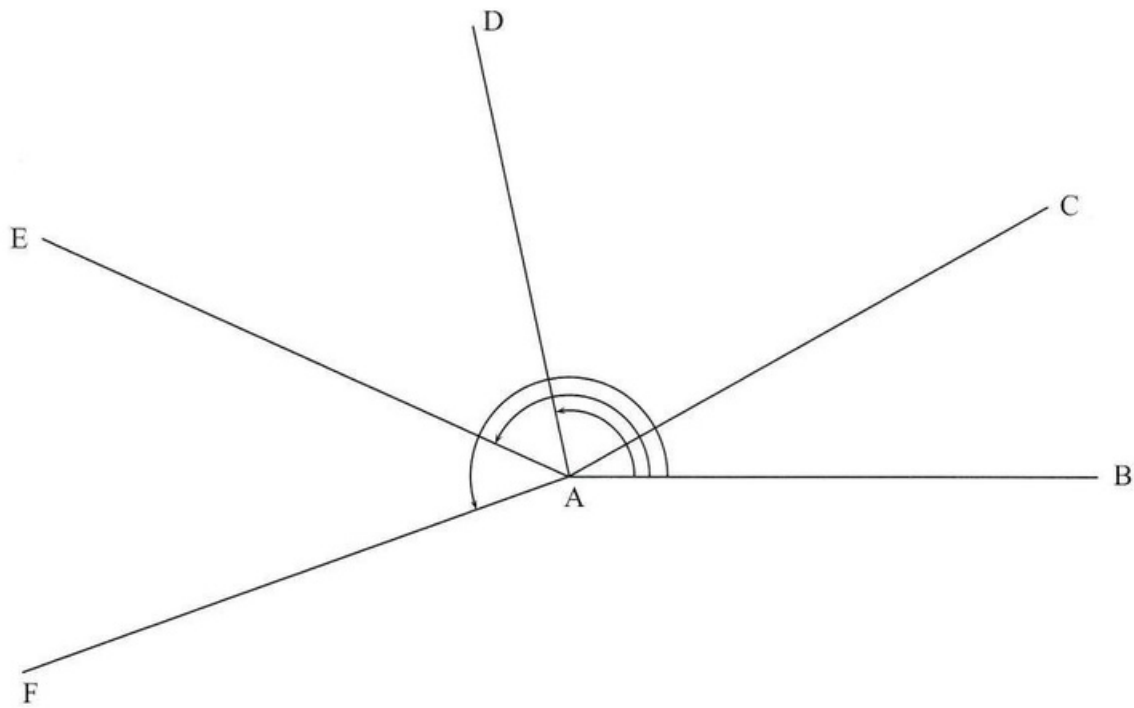
[6]

● P

A _____ B

2. Measure and name each angle in the figure below.

[8]



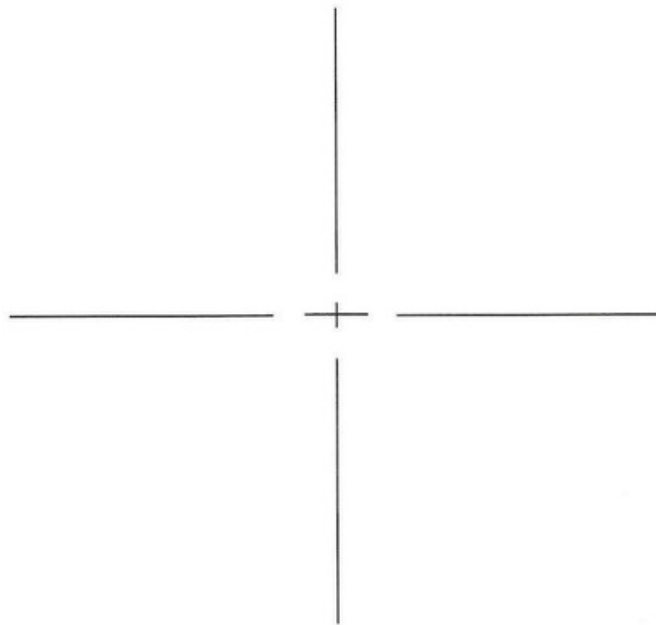
Measure Angle

Angle Name

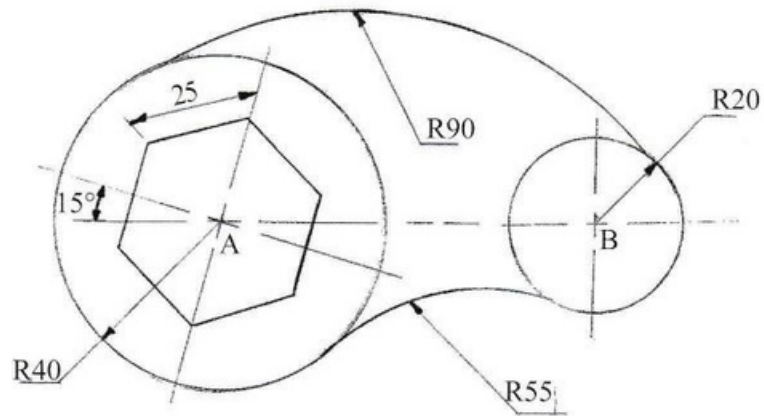
BAC –	_____	–	_____
BAD –	_____	–	_____
BAE –	_____	–	_____
BAF –	_____	–	_____

3. (a) Construct a circle of radius 42 mm using the given centre lines below.
(b) Construct a second circle tangential to circle (a) of radius 24 mm.
(c) Indicate the point of tangency.

[10]



4. The diagram below shows a view of a spanner. Construct the spanner full size showing all construction work.
You may use a protractor to draw the 15° angle. [16]



SECTION C

ORTHOGRAPHIC PROJECTION
(30 marks)

INSTRUCTIONS:

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

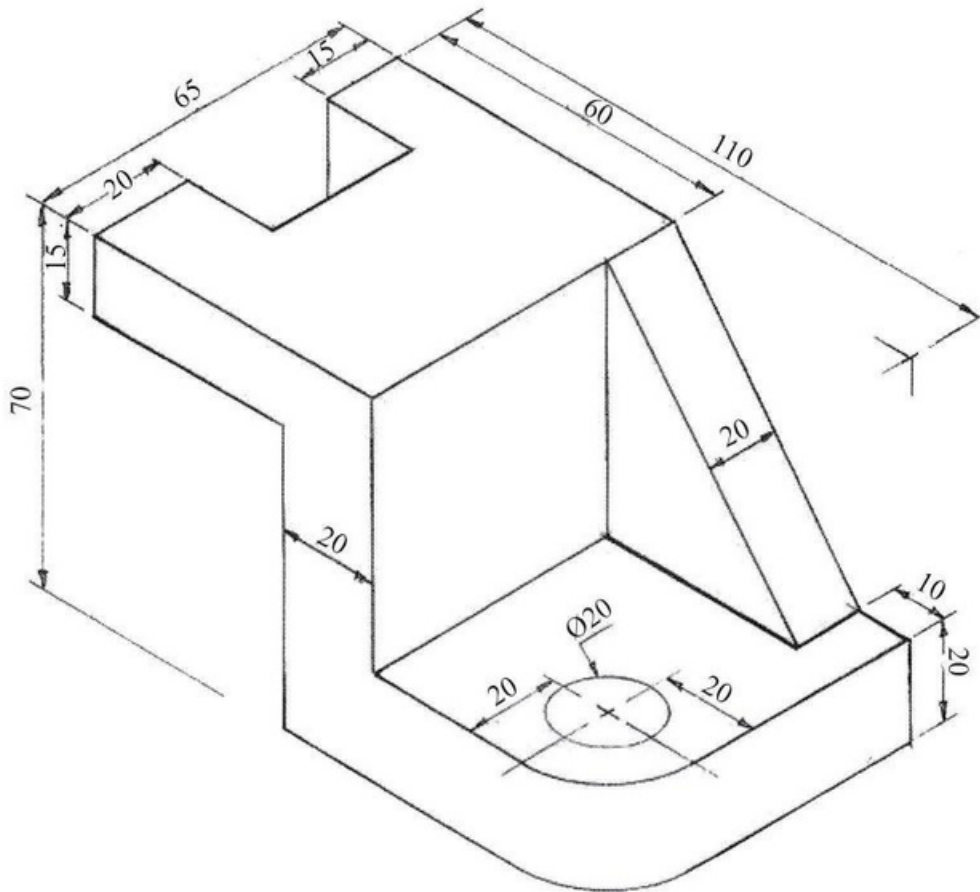
Use the sheet and draw full size in **FIRST ANGLE PROJECTION** the following views of the Shaped Block below.

- (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 (a).

Show all hidden details.

Name each view.

Do not dimension.



SHAPED BLOCK

SURNAME & INITIALS	CANDIDATE No.

	SCHOOL No.	DRAWING NAME

UNFOLD PAGE