

BECE HOME MOCK EXAM



PREPARE
PRACTICE
PERFORM
SUCCEED!



BETTER
PREPARATION
BETTER RESULTS
BRIGHTER
FUTURE

RESULT FOCUSED. EXAMINER SET. SUCCESS GUARANTEED!



AUGUST 2026

(2027 BECE)



EXAM STYLE
QUESTIONS



EXPERIENCED
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DETAILED
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MATHEMATICS

MATHS



2 HOURS

PAPER 2 Instructions:

Answer **four** questions **only** –
Show all workings/steps for **Section B**
answers, ensure your hand writings are
clear and easy to read.

NAME: _____

INDEX NUMBER: _____

MONTH TAKING THIS EXAM: _____ **AUGUST 2026**



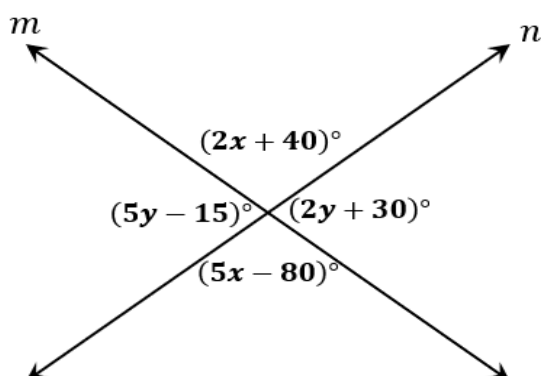
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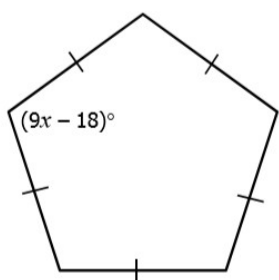
BE READY FOR BECE SUCCESS!

PAPER 2 - ESSAY - [60 MARKS]

1. a. The annual profit of a business was divided between two partners, A and B in the ratio 3:5. If B received GH¢3000 more than A, what was the total profit?
- b. Given that $x = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$, $y = \begin{pmatrix} 0 \\ -3 \end{pmatrix}$ and $z = \begin{pmatrix} -2 \\ 7 \end{pmatrix}$, find $2(x + 3y + 5z)$
- c. Find $(x^2 + y^2)$ using the diagram below.



2. a. Find the truth set of $\frac{1}{5}(2 - y) + 1 \leq \frac{1}{2}(3y - 4)$ and represent your answer on a number line.
- a. A cliff is 105m high. From the top of the cliff the angle of depression of a boat is 35° . Find the distance of the boat from the foot of the cliff to the nearest metre. Take $\tan 35^\circ = 0.613$
- b. Find the value of x in the diagram below.



3. a. Find the equation of a straight line with a slope of $\frac{2}{3}$ and passing through the points $(-4, 5)$
- b. There are fifty pupils in a class. Out of this, one-tenth speak French only and one-fourth of the remaining speaks English only. Find the number of pupils who speak
- both English and French
 - only English
- c. Given that $m = 3$ and $n = -2$, simplify and substitute the value to evaluate the expression $\frac{2}{m-3n} - \frac{3}{m+n}$
4. Joe spent $\frac{1}{4}$ of his monthly salary on rent, $\frac{1}{3}$ of the remaining on food and $\frac{1}{8}$ of what still remained on clothes. If he had GH¢200 left, find;
- His total income
 - What he spent on food
 - How much he spent on clothes
 - His salary left as fraction of the his total monthly income
5. The sets $P = \{\text{multiples of 3}\}$, $Q = \{\text{factors of 72}\}$ and $R = \{\text{even numbers}\}$ are subsets of $U = \{18 \leq x \leq 36\}$.
- List the elements of P, Q and R .
 - Find;

- (i) $P \cap Q$
- (ii) $Q \cap R$
- (iii) $P' \cap R$
- (iv) the relation between $P \cap Q$ and $Q \cap R$

- c. The perimeter of a rectangular plot of land whose length is $(2x+5)$ m and width $(x - 10)$ is 80 m. Find the
- i. value of x ;
 - ii. area of the plot;
 - iii.

6. a. Copy and complete the table for the relation

x	-3	-2	-1	0	1	2	3	4
y	11			5		1		-3

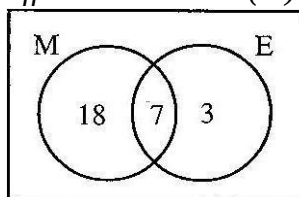
- b. Using a scale of 2cm to 1 unit and 2cm to 2 units on the x – axis and y – axis respectively, draw on a graph sheet two perpendicular axis ox and oy .
- c. i. Using the table, plot all the points of the relation $y = 5 - 2x$
 ii. Draw a straight line through all the points.
- d. Using the graph, find the
- i. value of y when $x = 3.6$
 - ii. value of x when $y = -2.6$
 - iii. gradient of the line

PAPER 1 - OBJECTIVE TEST - [40 MARKS]

Each question is followed by four options lettered A to D. Find out the correct option for each question and shade in pencil on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only one answer to each question

1. If set **N** is a subset of set **M**, then
- A. sets **M** and **N** have the same number of elements
 - B. some members of set **N** can be found in set **M**
 - C. no member of set **N** is in set **M**
 - D. all members of set **N** are in set **M**

The Venn diagram shows the number of pupils who offer Mathematics (**M**) and / or English in a class.



Use this information to answer Questions 2 and 3.

2. How many pupils offer Mathematics?
- A. 10
 - B. 18
 - C. 25
 - D. 28
3. How many pupils offer only one subject?
- A. 3
 - B. 7
 - C. 18
 - D. 21

4. Simplify: $12 - 7 - (-5)$
- A. -10
 - B. -2
 - C. 0
 - D. 10
5. Express 72 as a product of its prime factors
- A. 2×3^3
 - B. $2^2 \times 3^3$
 - C. $2^3 \times 3$
 - D. $2^3 \times 3^2$
6. Find the **smallest** number which is divisible by 16 and 20?
- A. 40
 - B. 80
 - C. 120
 - D. 160
7. Skip count 71012300 forward by 100000 to find the next two numbers.
- A. 71112300, 71211300
 - B. 71112300, 71212300
 - C. 71111300, 71212300
 - D. 71112300, 71012300
8. A pineapple which was bought for GH¢ 1.00 was sold at GH¢ 1.30. Calculate the profit percent.
- A. 10%
 - B. 20%

- C. 23%
D. 30%
9. Simplify $35x^5y^3 \div 7xy^2$
A. $5x^4y$
B. $5x^4y^5$
C. $5x^6y$
D. $5x^6y^5$
10. Two bells P and Q ring at intervals of 3 hours and 4 hours, respectively. After how many hours will the two bells **first** ring simultaneously (at the same time)?
A. 6 hours
B. 8 hours
C. 12 hours
D. 24 hours
11. A boy scores $\frac{17}{25}$ in a French test. Express his score as a percentage.
A. 17%
B. 34%
C. 68%
D. 85%
12. Arrange the following fractions in ascending order of magnitude $\frac{2}{5}, \frac{5}{12}, \frac{3}{4}$
A. $\frac{2}{5}, \frac{3}{4}, \frac{5}{12}$
B. $\frac{2}{5}, \frac{5}{12}, \frac{3}{4}$
C. $\frac{5}{12}, \frac{2}{5}, \frac{3}{4}$
D. $\frac{3}{4}, \frac{2}{5}, \frac{5}{12}$
13. Kofi paid rent of GH¢ 1,800.00 each year. If the rent is 0.3 of his annual income, find his annual income.
A. GH¢ 600.00
B. GH¢ 5,400.00
C. GH¢ 6,000.00
D. GH¢ 18,000.00
14. I gave a storekeeper a GH¢10.00 note for goods I bought. He asked me for another 15Gp for ease of change. If he then gave me 50 Gp, how much did I pay for the goods?
A. GH¢ 9.35
B. GH¢ 9.45
C. GH¢ 9.65
D. GH¢ 10.65
15. Kojo can buy 15 shirts at GH¢ 4.00 each. If the price is increased to GH¢ 5.00, how many shirts can he now buy?
A. 12
B. 15
C. 19
D. 20

16. A hall which is 8m long is represented on a diagram as 4 cm long. What is the scale of the diagram?

- A. 1:200
B. 1:250
C. 1:400
D. 1:800

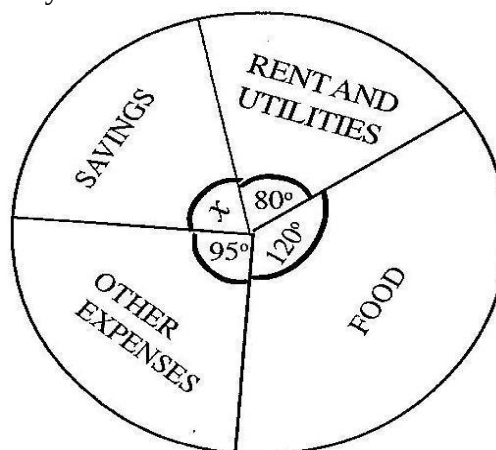
17. Jane arrived at work at 7:55 am and left at 4:15 pm. For how long was she at work?

- A. 7 hr 20 min
B. 7 hr 45 min
C. 8 hr 20 min
D. 8 hr 40 min

18. Given that $(3.14 \times 18) \times 17.5 = 3.14 \times (3p \times 17.5)$, find the value of p

- A. 3.0
B. 5.8
C. 6.0
D. 9.0

The pie chart shows how Kwaku spends his monthly salary.



Use this information to answer Questions 19 to 21

19. Find the value of x

- A. 65°
B. 75°
C. 85°
D. 100°

20. Kwaku earns GH¢ 630.00 a month. How much of this does he spend on food?

- A. GH¢ 140.00
B. GH¢ 157.00
C. GH¢ 210.00
D. GH¢ 350.00

21. What percentage of his salary does he spend on rent and utilities?

- A. 12.1%
B. 12.5%
C. 22.2%
D. 33.3%

22. The square root of $\frac{4}{25}$ is

- A. $\frac{3}{50}$
- B. $\frac{1}{5}$
- C. $\frac{2}{5}$
- D. $\frac{1}{2}$

23. Find the difference between 200 and 19.7

- A. 181.3
- B. 180.3
- C. 191.3
- D. 182.3

24. Find the product of 24.5 and 100

- A. 245
- B. 2450
- C. 24500
- D. 245000

25. The area of a square is 4cm^2 . Find its length.

- A. 2cm
- B. 4cm
- C. 1cm
- D. 8cm

26. How many minutes from 10:15 am to 12 noon?

- A. 105 minutes
- B. 115 minutes
- C. 125 minutes
- D. 145 minutes

27. Add 424, 8071 and 29

- A. 8354
- B. 8624
- C. 8424
- D. 8524

28. Evaluate $\frac{37}{100} \times \frac{7}{10}$

- A. 0.259
- B. 2.590
- C. 25.90
- D. 259.0

29. Find the cost of three 5kg bags of rice at GHS35.00 each

- A. GHS 105.00
- B. GHS 150.00
- C. GHS 155.00
- D. GHS 175.00

30. Increase 2507 by 964

- A. 3571
- B. 3472
- C. 3471
- D. 3481

31. Find the highest (greatest) common factors of 35 and 70

- A. 5
- B. 7
- C. 10
- D. 35

32. The product of prime factors for 36 is

- A. $2^2 \times 3^2$
- B. $2 \times 3 \times 5$
- C. 2×2
- D. 2×5

33. In a class of 60 students, 36 play football and the remaining play volleyball. What percentage of the students play volleyball?

- A. 20%
- B. 40%
- C. 75%
- D. 80%

34. There are 300 soldiers on a training ground. $\frac{3}{4}$ are from the Army. The rest are from Navy. How many Navy soldiers are on the ground?

- A. 75
- B. 225
- C. 215
- D. 150

35. Find the value of a in $\frac{2}{7} = \frac{a}{35}$

- A. 40
- B. 10
- C. 20
- D. 5

36. If $2^x = 8$, what is the value of x?

- A. 0
- B. 1
- C. 4
- D. 2

37. Yaa saved GHØ24.50 every month for 8 months. How much did she save?

- A. GHS 204.32
- B. GHS 205.32
- C. GHS 196.00
- D. GHS 204.22

38. Arrange the following in ascending -2.3, -3.4, -4.3 and 0

- A. -4.3, -3.4, -2.3 and 0
- B. -2.3, -4.3, 0 and -3.4
- C. 0, -3.4, -4.3 and -2.3
- D. -2.3, -3.4, 0 and -4.3

39. Two third of the students in a class are girls, if there are 42 students in the class, how many are girls

- A. 21
- B. 28
- C. 23
- D. 24

40. Write two hundred and two million, two thousand and two in figures.

- A. 202,002,002
- B. 202,020,202
- C. 202,022,202
- D. 202,200,202