



**CHRIST HIGH SCHOOL PLOT 5, CHS  
STREET, KM 32, ABUJA-KEFFI ROAD  
UKE, NASARAWA STATE**

**JSS1 EXAMINATION  
2024/2025 ACADEMIC  
SESSION**

**SUBJECT: MATHEMATICS  
CLASS: JSS 2  
TIME: 2 Hour 30 Minutes**

**NAME.....**

**CANDIDATE'S ADMISSION NO.**

**INSTRUCTION**

**Write your name and number in the space  
provided on your answer booklet. Write  
your name on any extra sheet used.**

**Answer all questions in Section A and any  
four (4) questions in Section B.**

**At the end of the examination, staple all  
your work securely together.**

**N**

**FOR EXAMINER'S USE**

Total Score:

## SECTION A: OBJECTIVE

### INSTRUCTION: ANSWER ALL QUESTIONS

1. ----- is a number that leaves no remainder when it is used to divide another number.
  - A. Prime numbers
  - B. Decomposed numbers
  - C. Prime factors
  - D. Factors
  - E. Multiples
2. Which among these is a perfect square? 30,36,81,52
  - A. 30,52
  - B. All of the above
  - C. 36,81
  - D. 81
  - E. 81.32
3. Evaluate  $\frac{(5+1)^2}{(7-5)^2}$ 
  - A. 9
  - B. 64
  - C.  $\frac{18}{37}$
  - D. 18.37
  - E.  $\frac{6}{2}$
4. What the smallest number that must be added to 1176 to make it a perfect square?
  - A. 3
  - B. 76
  - C. 9
  - D. 2,3
  - E. 6
5. Find the square root of  $6\frac{1}{4}$ 
  - A.  $\frac{25}{4}$
  - B.  $\frac{5}{4}$

C.  $2\sqrt{4/5}$

D.  $\frac{4}{5}$

E.  $1\frac{1}{2}$

6. Evaluate  $17^2$

A. 289

B. 456

C. 174

D. 49

E. 1289

7. Express  $\frac{25}{40}$  as percentage

A. 62.5%

B. 25%

C. 63%

D. 65%

E. 34%

8. What is the product of 50% of 30 and 25% of 40?

A. 30

B. 120

C. 150

D. 80

E. 15%

9. Find 24% of 10

A. 30

B. 2.4

C. 56

D. 240

E. 3

10. A child receives 5ml of a liquid drug three times a day from a bottle of 100ml. what percentage of the drug does the child receive in a day?

A. 150%

B. 25%

C. 5%

D. 15%

E. 3%

11. What the value of  $x$  in  $2:5 = 18:x$

- A. 5
- B. 45
- C. 9
- D. 2
- E. 18

12. In Nigeria the ratio of the numbers of teachers to students is supposed to be 1:40. If there are 18 teachers in a particular school, what is the possible number of students that can be taught at a particular time?

- A. 0.95 students
- B. 720 students
- C. 567 students
- D. 40 students
- E. 22.203 students

13. The average price of a book during its launch was ₦500. The price was reduced by 5% for students and increase by 5% for teachers and others to buy. If 50 students and 20 teachers bought copies of the book, calculate the total cost.

- A. ₦33850
- B. ₦980
- C. ₦23750
- D. ₦10100
- E. ₦7500

14. Express ₦30 as the percentage of ₦50.

- A. 6%
- B. 30%
- C. 68%
- D. 60%
- E. 166.6%

Use this to answer question 15 and 16. A circle divided into three sectors in the ratio of 4:5:6

15. Find the angle in the largest sector of the circle.

- A.  $100^\circ$
- B.  $78^\circ$
- C.  $144^\circ$
- D.  $24^\circ$
- E.  $96^\circ$

16. Find the difference between the largest and smallest angles in the circle
- A.  $48^\circ$
  - B.  $24^\circ$
  - C.  $144^\circ$
  - D.  $100^\circ$
  - E.  $96^\circ$
17. Convert 37 Out of 50 to percentage.
- A. 36%
  - B. 70%
  - C. 3.7%
  - D. 74%
  - E. 370%
18. The ratio of boys to girls in a certain school is 6:5. Find the percentage of boys in the school.
- A. 120%
  - B. 83.33%
  - C. 183%
  - D. 330%
  - E. 20%
19. Find the value of y, if  $\frac{15}{y} = 30\%$
- A. 1.50%
  - B. 30%
  - C. 100%
  - D. 50%
  - E. 2%
20. What fraction is represented by 150%
- A.  $\frac{2}{5}$
  - B.  $\frac{2}{5}$
  - C.  $1\frac{1}{2}$
  - D.  $\frac{1}{3}$
  - E.  $\frac{1}{3}$
21. ----- is the process of planning how to spend an amount money or income?
- A. Expenditure
  - B. Income
  - C. Household budgeting

D. Aligning budgeting

E. Household expenditure

The table below contain the budget on what a family planned to spend based on their income in a month. Use the table to answer question 22 – 27.

Table 5.1

INCOME	EXPENSES
₦112000	School fees      ₦15000 Water bill        ₦1500 Electricity bill   ₦2400 Food               ₦41000 Savings           ₦12000 Health            ₦8000 Transport        ₦12000 Clothing's        ₦8000 Entertainment   ₦6000

22. Calculate the total expenses of the family

- A. ₦105,900
- B. ₦150,900
- C. ₦1,500,000
- D. ₦115,000
- E. ₦101500

23. Find the total amount of money, if any, that the family will have for other expenses or emergencies.

- A. ₦6000
- B. ₦150,600
- C. ₦16,000
- D. ₦6100
- E. ₦6500

24. Find the ration of water bill to the electricity bill bases on the family income.

- A. 8:5
- B. 5:10
- C. 5:8
- D. 25:16
- E. 2:3

25. Calculate the percentage savings from the family income per month.

- A. 10.71%
- B. 14%
- C. 15%
- D. 1071%
- E. 71%

26. If the cost of food for the family is increased to ₦45000, calculate the amount of money that will be available for emergencies.

- A. ₦2100
- B. ₦31100
- C. ₦64100
- D. ₦45000
- E. ₦89000

27. If the cost of transportation is reduced by 10% and added to the cost of school fees, what will be the amounts for school fees and transport?

- A. ₦16200, ₦13800
- B. ₦81600, ₦900000
- C. ₦16200, ₦10800
- D. ₦77500, ₦20000
- E. ₦10800, ₦61600

28. The amount of money set aside for future use is known as-----?

- A. Expenses
- B. Keeping
- C. Rent
- D. Bill
- E. Saving

29. The wedding expenses of a man is estimated at ₦85986. If the man saves 12% of his monthly income of ₦42 150, in how many months will he have saved enough money for the wedding?

- A. 5058 months
- B. 17months
- C. 12months
- D. 7months
- E. 24months

30. A man rented an apartment and pays a fixed monthly rent of ₦3000 being 15% of his monthly income. Calculate the monthly income and the amount of rent to be paid at the end of the year.

- A. ₦20000, ₦36000

- B. ₦2000, ₦36000
- C. ₦0.2666, ₦300000
- D. ₦43000, ₦45000
- E. ₦23000, ₦3000

31. A carpenter's income in a month is ₦18 000. If he pays 25% of the income as tax, what is his income tax?

- A. ₦20000
- B. ₦4500
- C. ₦18
- D. ₦25
- E. ₦2500

32. The rentable value of a business Centre is ₦12400. Find the annual rate at 15k in the naira.

- A. ₦186000
- B. ₦18000
- C. ₦68500
- D. ₦1860
- E. ₦186

33. Find the rentable value of a house when the annual rate at 65k in the nearest naira is 295490k.

- A. ₦454.6
- B. ₦4546
- C. ₦2954900
- D. ₦1912234
- E. ₦45.46

34. Find the rate at 80k in the naira on a house of rentable value of ₦310 to the nearest naira.

- A. 248
- B. 248000
- C. 3.875
- D. 3000
- E. 32000

35. A man saves 12% of his monthly salary and spend the rest on food and entertainment. Calculate the man's monthly savings if the monthly salary is ₦38250 per month.

- A. ₦3566
- B. ₦40600



C. ₦24600

D. ₦8250

E. ₦4590

36. Desktop Mobile charges 15k per second for Yan-me-more talk and ₦9 per minutes for international calls. Calculate the telephone charges for making 13 minutes Yan-me-talk and 11 minutes 30 seconds of international calls.

A. ₦69 721

B. ₦220

C. ₦6327

D. ₦22500

E. ₦69.721

37. What is the water rate bill on 1 866 units of water consumed in one month at the rate of ₦1.20per unit including a fixed charge of ₦60 plus 5% Vat?

A. ₦2299.2

B. ₦2414.16

C. ₦2329.2

D. ₦2302.22

E. ₦20.47

38. Find the amount of rent on a single room at 10% per month on a monthly income of ₦3000.

A. ₦300

B. ₦3300

C. ₦3000

D. ₦950

E. ₦3500

39. Find the rent as a percentage of total income if a man pays ₦1500 per week for a shop that generates a weekly income of ₦20 000.

A. 75%

B. 45%

C. 150%

D. 7.5%

E. 12%

40. A family's monthly income is ₦84600. If 5% of the income is spent on telephone bills at the rate of ₦36 per minute including 5% vat, calculate the family's telephone bill in a month.

A. ₦4230

B. ₦2115

C. ₦63480

D. ₦88830

E. ₦12500

41. When the price of an item is higher than the selling price, it results in -----

A. Budgeting

B. Cost price

C. Lost

D. Profit

E. Percentage lost

42. The formula profit multiply by 100 divide by CP is used to calculate-----

A. Budgeting

B. Cost price

C. Lost

D. Profit

E. Percentage lost

43. The interest paid on loan or saving at a fixed interval is known as -----

A. Cost price

B. Lost

C. Simple interest

D. Interest

E. profit

44. Find the simple interest on ₦2000 borrowed for 6 months at the rate of 4%.

A. ₦48000

B. ₦48

C. ₦50

D. ₦12

E. ₦84

45. The amount of money borrowed or deposited is known as -----

A. Capital

B. Simple interest

C. Amount

D. Time

E. Principle

46. Find the rate if the simple interest on ₦5500 for 3 years is ₦615.

A. 16,500%

B. 5%

C. 3.5%

D.  $3\frac{8}{11}\%$

E. 8%

47. Find the principal amount that will yield an interest of ₦600 for  $2\frac{1}{2}$  years at the rate of 8%.

A. ₦3000

B. ₦7500

C. ₦6000

D. ₦2500

E. ₦16000

48. Find the cash price after the 20% discount at a marked price of ₦4500.

A. ₦6500

B. ₦3000

C. ₦3600

D. ₦5000

E. ₦4000

49. The cost price of a packet of sweets is ₦120. If for every packet, a discount of 10% is offered, find how much cash would be paid for 12 packets.

A. ₦12000

B. ₦1296

C. ₦12600

D. ₦12900

E. ₦144

50. The price of a ceiling fan was reduced from ₦5450 to ₦5 250. Calculate the percentage discount.

A. ₦708.50

B. ₦1296

C. ₦96.33

D. ₦200

E. ₦4576

51. Evaluate  $2685 + 4736$  using approximate value.

A. 5000

B. 7000

C. 6800

D. 8000

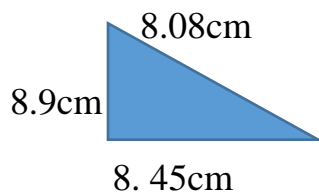
E. 6000

52. Round 874.3 to the nearest whole number.

- A. 874
- B. 800
- C. 870
- D. 874.0
- E. 900

53. Estimate the cost of 12 rulers at ₦12 each.

- A. 14400
- B. 67000
- C. 1400
- D. 102
- E. 144



54. Estimate the perimeter of the triangle above.

- A. 25cm
- B. 50cm
- C. 24cm
- D. 27cm
- E. 26cm

55. Simplify without using the number line  $56 + (-47)$ .

- A. 9
- B. -9
- C. 19
- D. 34
- E. -18

56. Simply  $100 + (-63)$ .

- A. -37
- B. 40
- C. 63
- D. 37
- E. 73

57. Evaluate without number line  $-5 - (-4)$ .

- A. 9
- B. -9

C. -20

D. -1

58. Evaluate  $-34-64$ .

A. -15

B. 36

C. -98

D. 20

E. 34

59. Simplify  $5 * (-3)$ .

A. -15

B. 2

C. -2

D. -8

E. 8

60. Simplify  $-6 \div (-\frac{1}{3})$ .

A. 18

B. -6.5

C. 89

D. 23

E. -18

## SECTION B: THEORY

INSTRUCTIONS: answer only four questions

1.

INCOME	EXPENSES																		
₦112000	<table> <tr> <td>School fees</td><td>₦15000</td></tr> <tr> <td>Water bill</td><td>₦1500</td></tr> <tr> <td>Electricity bill</td><td>₦2400</td></tr> <tr> <td>Food</td><td>₦41000</td></tr> <tr> <td>Savings</td><td>₦12000</td></tr> <tr> <td>Health</td><td>₦8000</td></tr> <tr> <td>Transport</td><td>₦12000</td></tr> <tr> <td>Clothing's</td><td>₦8000</td></tr> <tr> <td>Entertainment</td><td>₦6000</td></tr> </table>	School fees	₦15000	Water bill	₦1500	Electricity bill	₦2400	Food	₦41000	Savings	₦12000	Health	₦8000	Transport	₦12000	Clothing's	₦8000	Entertainment	₦6000
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Entertainment	₦6000																		

- i. Calculate the total expenses of the family  
2mark
  - ii. Find the total amount of money, if any, that the family will have for other  
1mark
  - iii. Find the ration of water bill to the electricity bill bases on the family income.  
1mark
  - iv. Calculate the percentage savings from the family income per month.  
1mark
2. A family's monthly income is ₦84600. If 5% of the income is spent on telephone bills at the rate of ₦36 per minute including 5% vat, calculate the family's telephone bill in a month. 2marks
- ii. The ratio of boys to girls in a certain school is 6:5. Find the percentage of boys in the school. 3marks
3. Desktop Mobile charges 15k per second for Yan-me-more talk and ₦9 per minutes for international calls. Calculate the telephone charges for making 13 minutes Yan-me-talk and 11 minutes 30 seconds of international calls. 5marks
4. What's the value of x in  $2:5 = 18:x$  2marks?
- ii. Find the principal amount that will yield an interest of ₦600 for  $2\frac{1}{2}$  years at the rate of 8%. 3 marks
5. Evaluate with number line  $-5 - (-4)$ . 2marks

ii. Simplify  $8y = 16$

3marks

6. Solve  $-\frac{2b}{3} = \frac{-28}{3}$

3marks

ii. Simplify without number line  $56 + (-47)$ .

2marks