

UMMUL QURA HIGH SHOOOL

Arowona Bus-Stop Amuloko Akanran Road, Ibadan.

Third-Term Examination

CLASS: JSS 1

SUBJECT: Mathematics.

DURATION: 2 hours.

Instructions: Answer *all* questions in **Section A** and *three* in **Section B**.

SECTION A: OBJECTIVES

1. How many metre (m) makes *one* kilometer (km)?
 - A. 20
 - B. 1000
 - C. 2000
 - D. 10
2. A bag of rice is measured in ----.
 - A. Tone (t)
 - B. Gram (g)
 - C. Kilogram (kg)
 - D. Litre (l)
3. Round off 10805 to the nearest thousand.
 - A. 10,000
 - B. 11,805
 - C. 10,805
 - D. 11,000
4. Round off 17.9 to the nearest ten
 - A. 18.9
 - B. 20
 - C. 18
 - D. 17
5. Round off 1551.78 to the nearest tenth.
 - A. 1551.00
 - B. 1551.78
 - C. 1551.80
 - D. 1550.00
6. Approximate 0.9875 to *one significant* figures.
 - A. 0.9880
 - B. 0.99
 - C. 1.00
 - D. 0.988
7. Approximate 1.859 to two decimal places.
 - A. 1.86
 - B. 1.85
 - C. 18.0
 - D. 1.05
8. What is the approximate value of $87 + 41$?
 - A. 128
 - B. 130
 - C. 46
 - D. 30
9. What is the approximate value of $27 - 18$?
 - A. 10
 - B. 9
 - C. 1
 - D. 15
10. Simplify $3(3x - 1) = 6$.
 - A. 1
 - B. 4
 - C. 5
 - D. 9
11. Simplify $12p - 2p - 4p$?
 - A. 18p
 - B. 8p
 - C. 6p
 - D. -6p
12. Simplify $5m + 2m + m$.
 - A. 7m
 - B. 8m
 - C. 3m
 - D. 10m

13. Add 11_2 and 10_2 .

- A. 100_2
- B. 110_2
- C. 111_2
- D. 101_2

14. Multiply 101_2 by 11_2 .

- A. 1001_2
- B. 1111_2
- C. 1011_2
- D. 1101_2

15. Solve for x in this equation: $3x - 8 = 10$.

- A. 8
- B. 6
- C. 4
- D. 2

16. $2y + 5 = 17$, Find the value of y.

- A. 6
- B. 14
- C. 7
- D. 11

17. $2x = 4$, find the value of x.

- A. 2
- B. 24
- C. 6
- D. 12

18. Simplify $2mn \times 3mn$.

- A. $6m^2n^2$
- B. $6mn$
- C. $5mn$
- D. $5m^2n^2$

19. Simplify $18y \div 6y$.

- A. $48y$
- B. $6y$
- C. 3
- D. 2

20. Simplify $8p - 5y - 5p - 3y$.

- A. $3p - 8y$

B. $13p - 8y$


C. $3p + 8y$

D. $3p + 2y$


Use the statement below to answer 21 – 23.

What number will each of the following symbols represents to make this statement

true?

21.  + 7 = 20.

- A. 15
- B. 13
- C. 3
- D. 27

22.  - 14 = 8.

- A. 32
- B. 22
- C. -6
- D. 6

23.  \times  \times  = 27.

- A. 5
- B. 3
- C. 9
- D. 12

24. A rectangle has how many sides?

- A. 4
- B. 2
- C. 6
- D. 3

25. Convert 0.47 to fraction.

- A. $\frac{47}{100}$
- B. $\frac{4}{10}$
- C. $\frac{47}{10}$
- D. $\frac{47}{1000}$

26. What is the estimate for daily cost of an hotel room if ₦5960 is paid for nine nights.

- A. ₦ 6069.41

- B. ₦ 7732.36
C. ₦ 6632.36
D. ₦ 5000.00

27. Convert 25 to base 2.

- A. 10011_2
B. 11001_2

Number	6	3	2	4	3	5	6	3	2	3
Frequency(no. of time each occurs)	4	6	5	4	2	1	3	1	3	1

- C. 11101_2
D. 10101_2

28. Convert 1101_2 to base 10.

- A. 31
B. 18
C. 13
D. 9

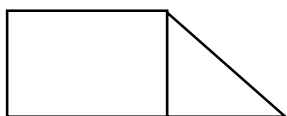
29. An angle less than 90° is ----.

- A. acute angle
B. reflex angle
C. obtuse
D. straight line

30. The face of a cube ----.

- A. square
B. rectangle
C. triangle
D. circle

31. The diagram below is a ----.



- A. parallelogram
B. rectangle
C. trapezium
D. kite

32. A parallelogram is a plane shape with ----.

- A. two opposite sides parallel and equal
B. three sides equal and not parallel
C. two opposite sides not equal to each other
D. two opposite sides not parallel

33. Write $2x + 3 = 6$ in words.

- A. A number is multiply by two and three
B. Two x plus three equals six
C. Two multiply by x is added to three and is equal to six
D. A certain number two is added to x and 3 also added to result is 6

Use the table below to answer questions 34

– 36.

34. How many times did 3 occurs?

- A. 3
B. 6
C. 10
D. 2

35. Which number occurred most frequent?

- A. 3
B. 6
C. 2
D. 5

36. Which number has the least of occurrence?

- A. 3
B. 5
C. 6
D. 2

37. What is the sum of an angle on a straight line?

- A. 360°
B. 180°
C. 90°
D. 60°

38. Right angled triangle can be called angle - ---.

- A. 90°
B. 45°
C. 60°
D. 100°

39. A plane shape with all four sides equal is - ---.

- A. triangle
- B. parallelogram
- C. square
- D. circle

40. A scalene triangle is a triangle with ----.

- A. all sides equal
- B. one side equal
- C. one side parallel
- D. none of the sides is equal

SECTION B: **THEORY**

Instructions: Answer any *three* questions from all.

1. Simplify the following;
 - a. $4x - 20 = 3x + 16$
 - b. $16x - 9y - 13x - 2y$
 - c. $3(2x - y) - 4(y - 2x)$
2. a. Find the approximate value and exact value of the following;
 - i. $72 + 45$
 - ii. 18.5×1.3
 - iii. $6\frac{1}{3} - 3\frac{2}{5}$b. When six is subtracted from a certain number and the number is multiply by eight, the result is thirty-two. Translate this in to mathematical statement
- c. Translate this mathematical equation into words. $4x - 12 = 36$.
3. a. Use balanced methods to solve; $4y + 3 = 13$.
- b. Use collection of like terms to solve; $2(3x - 1) = 3(3x + 1)$.
- c. Find the values of x in the binary below;
 - i. $x_2 + 111_2 = 1101_2$
 - ii. Add 110_2 to 101_2
4. With the aid of a diagram state the properties of the following plane shapes;
 - i. rectangle
 - ii. square
 - iii. parallelogram
 - iv. triangle