

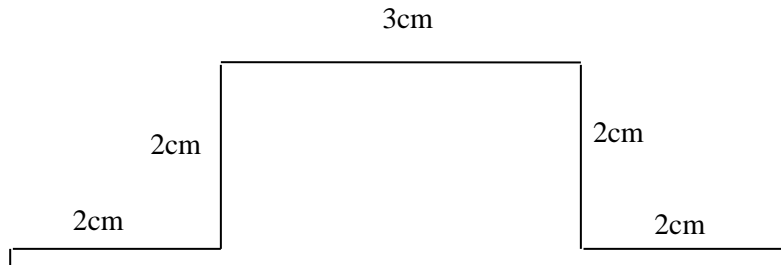
**THE INTERNATIONAL SCHOOL
UNIVERSITY OF IBADAN**

2013/2014 ENTRANCE EXAMINATION TO JS1

MATHEMATICS

1. Add together ₦28.64, ₦7.56, ₦17.92 and 63K
A. ₦50.35 B. ₦52.55 C. ₦54.75 D. ₦57.00 E. ₦59.25
2. The sum of two numbers is 156. Their difference is 18. Find the smaller number.
A. 84 B. 69 C. 120 D. 57 E. 40
3. In a certain examination, it was possible to get 500 marks. One boy got 370 marks. What percentage of the full mark was obtained?
A. 80 B. 78 C. 76 D. 74 E. 72
4. What is the value of 16.0681 correct to 2 decimal places?
A. 16.07 B. 20 C. 13.45 D. 7.45 E. 10.30
5. Which is the smallest of the following fractions?
A. $\frac{3}{5}$ B. $\frac{5}{8}$ C. $\frac{7}{10}$ D. $\frac{13}{20}$ E. $\frac{1}{4}$
6. What is the cost of 480 articles at ₦1.20 each?
A. ₦57.60 B. ₦57600 C. ₦576.00 D. ₦566.00 E. ₦5860
7. The next term of the following sequence 2, 5, 10, 17, 26 is
A. 29 B. 33 C. 31 D. 35 E. 37
8. Simplify $\frac{\sqrt{64} \times \sqrt{9}}{\sqrt{36}}$
A. 4 B. 2 C. 9 D. 16 E. 3

9. The angle between the hands of a clock at 3' o clock is
- A. 90^0 B. 360^0 C. 180^0 D. 0^0 E. 36^0
10. A motorist travelled a distance of 60km in 1 hr 30mins. What is his speed in km per hour?
- A. 91 B. 18 C. 4 D. 45 E. 40
11. In a society of 100 members, 60% of them paid ₦10,000 each and the rest paid ₦15,000 each into a charity appeal fund. How much did they contribute?
- A. ₦300,000 (B) ₦350,000 (C) ₦500,000 (D) ₦1,200,000 (E) ₦450,000
12. What does the roman numeral MCMLXIV represent?
- A. 1196 B. 1964 C. 1945 D. 10096 E. 1795
13. How many minutes are there from 9.10am to 11.45mins?
- A. 110mins B. 95mins C. 105mins D. 155mins E. 150mins
14. $\frac{1}{3}$ of the population of a school is 500. What is 20% of the total population?
- A. 250 B. 300 C. 450 D. 1000 E. 180
15. Arrange the decimals below, in an ascending order of magnitude:
0.3, 0.268, 0.075, 0.0079
- A. 0.0079, 0.075, 0.268, 0.3
B. 0.3, 0.075, 0.0079, 0.268
C. 0.3, 0.075, 0.268, 0.0079
D. 0.0079, 0.268, 0.075, 0.3
E. 0.075, 0.268, 0.0079, 0.3
16. Find the perimeter of the model shown below in metre



A. 2m B. 1m C. 0.5m D. 0.2m E. 0.3m

17. A circle has an area which is 4,840sq.m. What is its radius?

A. 35.5m B. 39.2m C. 42.9m D. 48.4m E. 59.3m

18. The simple interest of ₦2000.00 for $1\frac{1}{2}$ years is ₦240.00. What is the rate of interest per annum?

A. 10% B. 7% C. 8% D. 25% E. 8%

19. John and his three sisters shared 1,228 oranges. John had 20 oranges more than each of his three sisters. What was his share?

A. 632 B. 460 C. 750 D. 107 E. 322

20. The area of a garden, square in shape, is 676sq.m. How long is its side?

A. 10m B. 26m C. 52m D. 34m E. 71m

21. Mr. Awoyemi sold a car for ₦69,000.00. If he made a profit of 15%, how much did he buy the car?

A. ₦50,000.00 B. ₦55,000.00 C. ₦58,650.00 D. ₦60,000.00
E. ₦65,000.00

22. The area of a circle is 154cm^2 . What is the circumference of the circle? (Take $\pi = \frac{22}{7}$)

A. 22cm B. 44cm C. 77cm D. 88cm E. 308cm

23. The sum of four lengths is 4.36m. If three of the lengths are $1\frac{1}{2}$ m, 25cm and 2.10m, what is the fourth length?

A. 0.21m B. 0.96m C. 0.86m D. 0.51m E. 0.57m

24. The volume of a rectangular tank is 420m^3 . If the length and height of the tank are 14m and 5m respectively, what is the width of the tank?

A. 6m B. 16m C. 30m D. 70m E. 84m

25. $\frac{1}{4}$ of a 16m pole is painted white, $\frac{3}{8}$ blue and the rest green. How long is the part painted green?

A. 25m B. 12m C. 9.5m D. 6m E. 40m

26. The number 78 005 001 words is

A. Seventy eight million five hundred thousand and one

B. Seventy eight thousand five hundred and one

C. Seventy eight million five thousand and one

D. Seventy million eight hundred thousand and one

E. Seventy million eight hundred five thousand and one

27. What is 2082 in roman numerals?

A. MMLXXXII B. MMXLXXII C. MDLCCXII

D. MMDLXXXII E. MMLXXII

28. Find the missing numbers

4 0 7 2

$$\begin{array}{r} 49 \\ * * * * \\ \hline 5317 \end{array}$$

- A. 7438 B. 4121 C. 1206 D. 1196 E. 3244

29. A book has 25 lines per page. Each line has an average of 8 words. How many words are in this book if it contains 350 pages?

- A. 7000 B. 70,000 C. 700 D. 700,000 E. 7000, 000

30. Which of the following is not a proper fraction?

- A. $\frac{1}{4}$ B. $\frac{3}{2}$ C. $\frac{3}{4}$ D. $\frac{5}{8}$ E. $\frac{2}{3}$

31. Express 240 as a product of its prime factors in index form

- A. $2^3 \times 3 \times 5$ B. $3 \times 4^2 \times 5$ C. $4^2 \times 5 \times 6$ D. $2^4 \times 3 \times 5$
E. $2^5 \times 3^2 \times 5$

32. The prime numbers between 20 and 40 are

- A. 23, 29, 31, 37
B. 21, 23, 33, 37, 39
C. 21, 23, 27, 29, 31, 33, 35, 37, 39
D. 21, 23, 25, 27, 30, 31, 37
E. 21, 23, 26, 27, 29

33. Simplify $4\frac{1}{3} - 3\frac{1}{2} + 2\frac{1}{4}$

- A. $1\frac{1}{2}$ B. $3\frac{5}{12}$ C. $3\frac{1}{12}$ D. $3\frac{5}{12}$ E. $2\frac{2}{8}$

34. A woman bought 250 mangoes and 50 of them were bad. What fraction of the mangoes bought were good?

A. $\frac{1}{5}$ B. $\frac{3}{5}$ C. $\frac{4}{5}$ D. $\frac{7}{10}$ E. $\frac{2}{8}$

35. The actual price of a radio is ₦10,000. If $\frac{1}{5}$ of the price is taken off, how much will the radio cost?

A. ₦2000 B. ₦1000 C. ₦2500 D. ₦8000 E. ₦6000

36. What is two-third of the sum of 19 and 17?

A. 24 B. 72 C. 12 D. 36 E. 18

37. What is $\frac{1}{4}$ of HCF of 24, 16 and 48

A. 8 B. 16 C. 2 D. 48 E. 32

38. 80 pencils cost ₦440. Find the cost of 200 pencils.

A. ₦550 B. ₦1100 C. ₦1150 D. ₦500 E. ₦1000

39. Convert 37_{ten} to binary number

A. 10110 B. 100101 C. 111000 D. 100100 E. 101001

40. If 10 is multiplied by a number x and the result is added to 5, this statement may be written in algebra as

A. $10x + 5$ B. 20 C. 25 D. $15x^{\frac{3}{4}}$ E. $5x + 10$