1. $766 - 564 = $  A. 202  B. 1330  C. 1.358  D. 102
2. $1978 + 2783 = $  A. 761  B. 4761  C. 3761  D. 2761
3. $123324 + 12 = $  A. 10277  B. 11287  C. 12777  D. 117
4. $180 	imes \frac{1}{80} = $  A. 22.5  B. 3.25  C. 32.5  D. 2.25
5. $3^2 + 2^2 = $  A. $1^9/23$  B. $1 \frac{1}{2}$  C. 6  D. $1 \frac{1}{8}$

6. $4.75 \times 12.30 = $  A. 58.425  B. 58.425  C. 584.25  D. 582
7. $1112 \times 112 = $  A. 11211  B. 12212  C. 1011012  D. 124544
8. $\frac{4+1}{1} - \frac{4}{1} = $  A. $\frac{4}{1}$  B. $\frac{4}{3}$  C. $\frac{1}{2}$  D. 1
9. $22 - 8 \times 7 + 9 = $  A. 5  B. 137  C. 73  D. 644
10. Multiply $X CI$ by XI
    A. MXII  B. XMII  C. CCMXXVIII  D. MCCXXXII

11. Find the place of 3 in 6437
    A. tenth  B. tens  C. Thousandth  D. Hundredth
12. The answer to 34.763 + 7.0132 in 2 significant figures is
    A. 41.77  B. 42  C. 41.78  D. 41
13. $\frac{2}{10} + \frac{1}{1000} + \frac{5}{100} + \frac{6}{1000} = $  A. $0.2156$  B. $0.02156$  C. $0.2516$  D. $14/1000$

14. 0.1666... is the same as  A. $\frac{1}{6}$  B. $\frac{833}{5000}$  C. $\frac{1}{3}$  D. 0.2
15. Find the LCM of 45 and 75
    A. 3375  B. 15  C. 3  D. 225
16. The HCF of all numbers put together is
    A. 0  B. 1  C. very large  D. not known
17. A girl’s age is K years. How old will she be in 7 years time?
    A. K + 7  B. K -7  C. 7K  D. 77
18. What are the prime factors of 50?
    A. 5 and 10  B. 2 and 5  C. 5 and 10  D. 1 and 50
19. Express 34597 as a product of two factors.
    A. 802 x 6116  B. 802 x 2  C. 2 x 802  D. 802 x 0
20. Y can be divided by each of 3, 4, 6, and 9 without a remainder. What is the next larger number they can divide?
    A. 2Y  B. Y + 22  C. Y + 36  D. Y + 648
21. Tade bought X oranges but gave 6 out of them to Shade. How many oranges does he have left?
    A. X + 6  B. X - 6  C. 6 - X  D. 6 + 2X
22. If $2X \div 3 = \frac{4}{3}$ then X = ?
    A. $\frac{9}{8}$  B. $1 \frac{1}{4}$  C. $1 \frac{1}{8}$  D. $\frac{1}{8}$
23. If $\frac{5}{7}$ = $\frac{2}{12}$ then Y = ?
    A. $\frac{5}{3}$  B. $1 \frac{3}{3}$  C. $\frac{5}{4}$  D. $\frac{5}{4}$
24. Find the value of $P$, if $2 \times 5 + 5 = 7$
    A. $\frac{5}{5}$  B. $1 \frac{1}{5}$  C. $\frac{5}{4}$  D. $\frac{5}{4}$
25. If $P^3 = 64$, find the value of 3P?
    A. 4  B. 8  C. 12  D. 21$rac{1}{3}$
26. Decrease N2000 by 20%. Then increase the result by 20%. The final answer is?
    A. N 1600  B. N 1920  C. N 2000  D. N 2880
27. Which of these is true?
    A. $1 \frac{1}{2} < 2 < 3$  B. $1 \frac{3}{7} < \frac{2}{5}$  C. $0 > 0.00$  D. $3 \frac{1}{2} > 3 \frac{1}{4}$

Use the following data to answer questions 28 – 30:

5, 12, 4, 6, 15, 16, 5, 4, 7, 7, 5, 9
28. Find the sum of the range and the mode
    A. 5  B. 16  C. 12  D. 17
29. The median is
    A. 6  B. 6.5  C. 7  D. 7 11/12
30. The mean is
    A. 5  B. 6.5  C. 7  D. 7 11/12
31. Last year, my age was 12 years and my teacher’s age was 3 times mine. How old will my teacher be next year?
    A. 39  B. 40  C. 41  D. 42
32. A family of 5 people eat 2 bags of rice in 4 months. How long will it take a family of 8 people, eating at the same rate, to finish the bag of rice?
    A. 2 ½ months  B. 5 months  C. 160 months  D. 80
33. To cover a distance in 4 hrs, a car has to move at 120Km/hr. If the car travels at 60Km/hr, how long will it take to cover the distance?
    A. 2hrs  B. 4hrs  C. 8hrs  D. 45hrs
34. 124 mangoes were shared among Ola, Uche and Haja in the ratio 7:11:13. Find the mean of Haja and Ola’s share?
    A. 40  B. 80  C. 1456  D. 24
35. How long will a sum of N12000 attract N6000 simple interest at 10% per annum?
    A. 2 months  B. 6 years  C. 5 years  D. 6 months
36. Convert 59 to a binary number
    A. 1110102  B. 1101112  C. 1110112  D. 0110112
37. If N198 is exchanged for 1$. A man bought a shirt for $100 at a discount of 10%. How much naira did he pay?
    A. 90  B. 110  C. 19800  D. 17820
38. If $2X + 2Y = 28$. Find $X + Y$
    A. 32  B. 14C. 7  D. No answer
39. If $5P = 15$, what is $2P$?
    A. 2  B. 4  C. 6  D. 8
40. Simplify $2y - 3a + 8y - 2a - 7y + 5a - b =$?
    A. $2y - 10a - b$  B. $2a - b$  C. $2y + 10a - b$  D. $3y - b$
41. If $A + B = 18$ and $A - B = 4$, what is the value of $A$?
    A. 11  B. 13  C. 16  D. 22
42. Which of the following is not true?
    A. Rhombus is a trapezium  B. A square is a rhombus  C. A square is a rectangle  D. A kite is a trapezium
43. What is the smaller angle between the hour hand and minute hand at 8.00pm?
    A. 120°  B. 240°  C. 360°  D. 90
44. Express 2m² in cm².
   A 20cm²  B. 200cm²  C. 2,000cm²  D. 20,000cm²

45. How many square shapes can be cut out of a cube?
   A. 6  B. 8  C. 12  D. 16

46. \[ \begin{array}{c}
\text{50°} \\
\text{2X} \\
\text{60°}
\end{array} \]
   Find x.
   A 35°  B. 70°  C. 125°  D. 250°

47. Angles in a quadrilateral are marked as 100°, x, x – 10°, and x + 30° find the value of x.
   A. 360°  B. 120°  C. 80°  D. 73°

48. \[ \begin{array}{c}
\text{2.5X} \\
\text{2X}
\end{array} \]
   Find x.
   , A. 120°B. 80°  C. 40°  D. 20°

49. Evaluate \( \sqrt{125 + \sqrt{6\frac{1}{4}}} \)
   A. 12 \( \frac{1}{2} \)  B. 2C. 20  D. no answer

50. (3x - 2) + 5 = 5 find the value of x.
   A. 7  B. 9  C. 1  D. 2 \( \frac{1}{3} \)

**PART B: Write out only answers to number 51 – 60**

51. How many centimetres make 1 metre?

52. Evaluate \( 3 \cdot \frac{1}{7} \) of \((42 - 14) + 8 + 4\)

53. Three products are sold at N12, 15 and N33 respectively. How much will I need to buy exactly smallest quantity of any of the products?

54. The hypotenuse of a right triangle is 17cm. The 2nd sides is 12cm. Find the 3rd side to the nearest whole number

55. A motorist sped at 60Km/hr to a town in 30mins. He then made a U-turn and sped at 90Km/hr back to his starting point. What was his average speed?

56. A semicircle is joined to a rectangle, Find the total area.

57. Find the volume of a sphere of radius 10\( \frac{1}{2} \) cm

58. Scholars Bank PLC gives out loans at a compound rate of 10% per annum. If a man obtains N20,000 loan, how much will he pay back in 2 years?

59. In the triangle below, what is the value of \( Y - X \)?

60. What fraction of this figure is shaded?

---

**2016 Scholars Mathematics Whizz Kids contest (1\textsuperscript{st} Stage 120mins)**

**Candidate Number: __________________**

**INSTRUCTIONS:**
- Write the Candidate number on your answer script on your question paper. Keep this number secure.
- Write your answers clearly.
- For Questions 1 to 50, write the ALPHABETS of your chosen answers.
- For Questions 51 to 60, write out the answers. Do not show the details of your calculations.
- Questions 1 to 50 weigh an average of 1.5 marks.
- Questions 51 to 60 weigh an average of 2.5 marks.

A student’s life without Maths is a life without plans.

---

**RECENT AWARDS**

1. 1\textsuperscript{st}, 2\textsuperscript{nd}, 3\textsuperscript{rd}, 5\textsuperscript{th}, 6\textsuperscript{th}, 7\textsuperscript{th} and 8\textsuperscript{th} positions in 2016 Maths Olympiad organised by the National Mathematics Center (NMC) www.nmccabuja.org

2. Silver medal: 2016 (NMC Abuja) Olympiad

3. 2\textsuperscript{nd} position: 2016 Junior Science Olympiad

4. 1\textsuperscript{st} position: 2015 Cowbell Maths Competition (junior category)

5. 1\textsuperscript{st} position: 2015 Cowbell Maths Competition (Senior Category)

6. 2\textsuperscript{nd} Position, 2015 Cowbellpedia Maths Quiz T.V. show (www.Cowbellpedia.ng or Search by Google)

7. 1\textsuperscript{st} and 3\textsuperscript{rd} positions, 2015 Lagos M.A.N Olympiad

8. 1\textsuperscript{st} position, 2014 Maths Olympiads organised by Mathematical Association of Nigeria

9. 2\textsuperscript{nd} position: 2014 Debate and Quiz competition organised by the Bells Schools.

10. 1\textsuperscript{st} position, 2016 Quiz Competition organised by Covenant University’s Library

You may confirm these claims from the websites of the organisations of these competitions and the Ministry of Education.
61. 

62. The figure combines a section of a square with a 14m semicircle. Find its perimeter.

63. One side of a rhombus is 10cm and one of the diagonals is 16cm. Find the area of the rhombus.

64. What is the HCF of 8a and 6ab?
   A    B    C    D

65. Mr Chuks bought 1500mg of drugs, 3750g of flour and 1.4Kg of sugar. How many Kilograms of items did he buy?

66. \[2 \frac{3}{4} \times 1 \frac{1}{2} + \frac{1}{16}\]

67. Evaluate \[4! ÷ 3!\]

68. 

69. 

---

Scholars Universal School