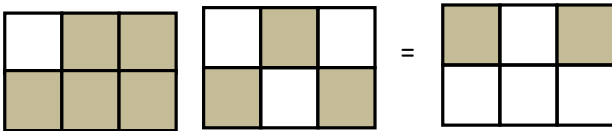


1. 50% of 60 = ? A. 30 B. 300 C.  $\frac{5}{6}$  D.  $\frac{6}{5}$
2.  $56 + 21 - 28 = ?$  A. 63 B. 80 C. 7 D. 49
3. Evaluate  $8 - 10 + 9$  A. 8 B. 9 C. 7 D. impossible
4.  $-2 \times \frac{1}{2} =$  A.  $-1\frac{1}{2}$  B. 1 C. -1 D.  $1\frac{1}{2}$
5. Evaluate  $7 - (-3) =$  A. 4 B. 10 C. 21 D. -4
6. Calculate  $\frac{2}{3}$  of  $\frac{7}{8}$  A.  $\frac{7}{12}$  B.  $\frac{7}{24}$  C.  $\frac{14}{21}$  D. 1
7.  $8 + 10 \div 2 - 4 \times 3$  A. 1 B. 15 C. 27 D. -3
8. Convert  $\frac{32}{5}$  to decimal A 0.64 B 6.4 C 5.4 D 0.54
9.  $798 \times 63 = ?$  A. 5274 B. 40274 C. 4274 D. 50274
10. Find  $\frac{5}{6} \div 1\frac{2}{3} = ?$  A.  $\frac{8}{11}$  B.  $\frac{25}{18}$  C. 1.2 D.  $\frac{1}{2}$
11. MIX + CDLV = ? A. 1945 B. 1464 C. 1155 D. 1955
12. The square root of  $2^2 \times 3^2$  is A 36 B.  $36^2$  C. 24 D. 6
13. Forty nine million, seven hundred and eight is A 49000708 B. 49007008 C. 49000,000,708 D 49800
14. Interpret the operation modelled below



- A.  $\frac{5}{6} + \frac{3}{6} = \frac{2}{6}$  B.  $\frac{1}{6} - \frac{3}{6} = \frac{2}{6}$  C.  $\frac{5}{6} - \frac{1}{2} = \frac{1}{3}$  D.  $\frac{5}{6} - 1 = \frac{1}{6}$
15. Find the ratio of the unshaded area to the total area of this figure:
 

A. 1 : 1 B. 1 : 2 C. 1 : 3 D. 3 : 1
  16. Calculate  $\frac{144 \times 16}{18}$  A.  $2^7$  B.  $2^4$  C.  $2^6$  D.  $2^5$
  17. Which of the following is not a factor of 572 A. 4 B. 6 C. 11 D. 13
  18. Which of the following is not divisible by 9 and 2 A. 12312 B. 50004 C. 18180 D. 80936
  19. Find the ratio of the LCM of 12 and 18 to their HCF A. 6 : 1 B. 2 : 3 C. 3 : 2 D. 1 : 6
  20. Find the LCM of  $2ab$  and  $6ac$  A.  $2abc$  B.  $12abc$  C.  $6abc$  D.  $12bc$
  21. The HCF of two numbers is 1 and their LCM is 26. If one of the numbers is 2, find the second number. A. 26 B. 13 C. 2 D. 52
  22. The square of 17 = ? A. 17 B. 412 C. 289 D. 34
  23.  $202 \times 4 = ?$  A.  $103^2 - 99^2$  B.  $408 \times 2$  C.  $20^2 + 22^2$  D.  $101 \times 2 \times 4$
  24. Which of these is true? A.  $\frac{1}{3} + \frac{1}{2} < \frac{5}{6}$  B.  $4.2 > \frac{9}{2}$  C.  $\frac{1}{4} \div \frac{3}{8} > \frac{1}{3}$  D.  $\frac{1}{6} > \frac{1}{5}$
  25. Chuks got to School at 8.30am but left after 5 hrs. what time did he leave School? A. 1:30am B. 1:30pm C. 2:30am D. 2:00pm
  26. Find the negative difference between 28 and 19 A. 9 B. -47 C. 47 D. -9

27. Which of the following is not a perfect square? A. 0 B. 1 C. 2 D. 4
28. What fraction of 4m is 30cm? A. 0.075 B. 0.0075 C. 0.75 D.  $\frac{4}{3}$
29. Evaluate  $2\frac{2}{3} \div (3 - \frac{1}{3})$  A. -1 B.  $-\frac{1}{2}$  C.  $\frac{1}{2}$  D. 1
30. If  $Y = 4$ ,  $Z = 3$ , and  $T = Y \times Z - Z^2$ , find the value of T. A. 3 B. 6 C. 9 D. 21
31. A number is divided by 3 and then multiplied by 4. The final result is 12. Find the number. A. 15 B. 12 C. 9 D. 6
32. What is the value of X in the expression  $2X + 1 = 5$  A. 4 B. 2 C. 1 D. 3
33. Which number is next in these set of numbers: 2, 6, 18, 54.... A. 162 B. 108 C. 184 D. 90
34.  $(2\frac{1}{2} + 1 - \frac{7}{2})(2 \times 3\frac{1}{2} \div 7\frac{1}{4} - 1) =$  A. 0 B. 1 C.  $8\frac{3}{5}$  D.  $1\frac{3}{4}$
35. The area of a circle of radius 14cm is A.  $44 \text{ cm}^2$  B.  $308 \text{ cm}^2$  C.  $88 \text{ cm}^2$  D.  $616 \text{ cm}^2$
36.  $18 \div 3 \square 6\frac{1}{2}$ . Which of the following symbol is most appropriate in the box? A. < B. = C. > D.  $\leq$
37. Find the area of a trapezium of height 4cm and parallel sides 20cm and 28cm long. A.  $152 \text{ cm}^2$  B.  $76 \text{ cm}^2$  C.  $96 \text{ cm}^2$  D.  $56 \text{ cm}^2$
38.  $\frac{Y}{3} = \frac{5}{7}$  find the value of Y A.  $\frac{5}{21}$  B.  $2\frac{1}{7}$  C.  $4\frac{1}{5}$  D.  $4\frac{1}{7}$
39.  $350000 \text{ cm}^2 = ?$  A  $35 \text{ m}^2$  B  $3500 \text{ m}^2$  C  $350 \text{ M}^2$  D  $3.5 \text{ m}^2$
40. Sum up 0.345Kg, 0.057Kg and 0.713Kg A 1115g B 11.15g C 111.5g D 1.005Kg
41. Amina owes Ade a sum of N560 but Amina owes Ade a sum of N490. How much is Ade's debt? A. N 1050 B. N 560 C. N 80 D. N 70
42. Tade rode his bicycle at 15Km/hr for 30mins. What distance did he cover? A. 15Km B. 750Km C.  $7\frac{1}{2} \text{ Km}$  D. 30Km
43. Ten men can do a work in 7 days. How long will it take a man to do two of such work? A. 140 days B. 70days C. 14days D. 14days
44. Two adjacent sides of a right angle triangle are 5cm and 12cm long. Find its hypotenuse. A. 17cm B. 13cm C. 7cm D. 60cm
45. If  $a = \frac{3}{8}$  and  $b = \frac{5}{6}$ . Then the product of the denominators of a and b = ? A 15 B  $\frac{5}{16}$  C 48 D 63
46. If  $x = 6$  and  $y = 7$ , find the reciprocal of  $x \div y$  A.  $\frac{6}{7}$  B  $1\frac{1}{6}$  C. 1 D. 13

47. Last year, a mother's age was twice his son's age,  $x$ . What is the ratio of their ages this year? A.  $x : 2x$  B.  $2x : x$  C.  $(2x+1) : (x+1)$  D.  $(3x+1) : 2x$
48. How many quadrants can be cut from a circle? A. 1 B. 2 C. 3 D. 4
49. How many 2cm x 2cm x 2cm cube of sugar can be kept in a packet of length 6cm, width 12cm and height 5cm A. 60 B. 45 C. 360 D. 72
50. Scholar Zainab set a record of 100% score in the year 2014 Mathematics Olympiads. What must another student score in order to break and set a better record? A, 101% B.100% C.90% D.No score can set a better record.

## PART 2

**Write out only answers. Do not show your calculation**

51. In 2016 Cowbellpedia Maths Competition, Scholar Idowu Tunmise answered 17 questions in 1 minute, how many questions will she answer in 180 seconds?
52. Evaluate  $\frac{(2/3 - 1/4)}{(5/6 + 1/2)}$
53. The diagonal of a rhombus are 13m and 10m respectively. Find the area of the rhombus. \_\_\_\_\_
54. If  $\frac{(x+2)}{6} = \frac{2}{3}$ , The value of  $x$  is? \_\_\_\_\_
55. If the mean of the numbers: 4, 7, 10,  $x$  is 6, the value of  $x$  is \_\_\_\_\_
56. The perimeter of a semicircle of radius 7cm is?
57. Number 0 is divided by  $g$ , then multiplied by 13 and divided by 26. The result is added to  $7\frac{1}{2}$ . The final result is?\_
58.  $1011_2 + 111_2 = ?$  \_\_\_\_\_
59. The following are marks obtained by six Students of Scholars Universal School in 2016 Cowbellpedia examination: 99%, 99%, 99%, 99%, 99%, 98%. Find the average score of the students to two decimal places. \_\_\_\_\_
60. Scholar Deborah has a magic box. If you put N1 in it, you will get 1 sweet. If you put N2, you will get 4 sweets, if you put N4, you will get 16 sweets if you put N5, you will get 25 sweets. If Scholar Tolani first puts N3, then N10 into the box. How many sweets will she get? \_\_\_\_\_



# Scholars Universal School

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## 2017 Scholars Mathematics Whizz Kids contest (1<sup>st</sup> Stage 120mins)

Candidate Number: \_\_\_\_\_

### INSTRUCTIONS:

- Write your Candidate number on your answer script and on question paper. Keep this number secure.
- 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 1.5marks
- Questions 51 to 60 weigh an average of 2.5marks

*A student's life without Maths is a life without plans*

### RECENT AWARDS

1. We won a **Gold medal** from American Mathematics Association for scoring 90% in 2016 AMC 10
2. We set an unbreakable record in 2016 Cowbellpedia by answering 17 questions correctly in 60 seconds (googleIdowuOluwatunmise)
3. 99% Score Average, 2016 Cowbell Maths Competition
4. 1<sup>st</sup> and 3<sup>rd</sup> position in 2016 Ogun MAN Olympiad
5. 1<sup>st</sup> positions in 2015 and 2016 Lagos MAN Olympiad
6. 2<sup>nd</sup> & 3<sup>rd</sup> positions in National Finals, 2016 Olympiad
7. 2<sup>nd</sup> position in 2016 STAN/Mobil Science Competition
8. 3<sup>rd</sup> position in 2016 PTDF Science Competition
9. 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> positions in 2016 Maths Olympiad. [www.nmcabuja.org](http://www.nmcabuja.org)
10. Silver medal: 2016 (NMC Abuja) Physics Olympiad
11. 2<sup>nd</sup> position: 2016 Junior Science Olympiad
12. 1<sup>st</sup> position: 2015 Cowbel Maths Competition (junior and Senior categories)
13. 2<sup>nd</sup> Position, 2015 Cowbellpedia Maths T.V Quiz
14. 1<sup>st</sup> position, 2014 Maths Olympiads organised by Mathematical Association of Nigeria

### Team Scholars @ 2016 Cowbellpedia TV show



**ENTRANCE FORMS** into JS 1 TO SS 2 are available at Scholars Universal Schools and at [www.scholarsuniversalschool.com](http://www.scholarsuniversalschool.com) for **N3000** only.

Date of Entrance Examination: 17<sup>th</sup> June, 2017.

Thanks for making the 10<sup>th</sup> edition of Scholars Mathematics Whizz Kids Contest a success. **Remain blessed**