1. The value on this abacus is

A. 3,150,0542 B. 3,150,542 C. 3,105,0542 D. 3,105,542

2. Simplify $3^4 + 5^2 – 18$
A. 2 B. -1 C. 3 D. 88

3. The base area of a rectangular tank is 12m² and its volume is 66m³. What is the height of the tank?
A. 972cm B. 550cm C. 88cm D. 54cm

A. 16 B. 20 C. 10 D. 30 E. 16.10

5. Decrease 256 by 25%
A. 192 B. 64 C. 231 D. 281

6. Divide the HCF of 6, 15, 18 by their LCM
A. $\frac{6}{90}$ B. $\frac{3}{1620}$ C. $\frac{1}{270}$ D. $\frac{1}{30}$

7. Which of the following is divisible by 2, 7 and 8 without a remainder?
A. 78 B. 28 C. 56 D. 36

8. Express 100cm² as a fraction of 2m².
A. 0.50 B. 1/50 C. 2 D. 0.05

9. Give the answer to 1 month + 1 week + 1 day in hours.
A. 72 hours B. 38 hours C. 972 hours D. 912 hours

10. Simplify MML - MDCCXXIV in Arabic numeral.
A. 326 B. 876 C. 926 D. 476

A. 4 B. 136 C. 68 D. 0.5

12. How many cm³ of water can a 2m by 4m by 3m tank hold?
A. 24 B. 24 000 C. 2 400 D. 24 000 000

13. Express 120mm as a fraction of 1.2m
A. 0.1 B. 1.0 C. 10.0 D. 100

14. If $X^2 = 225$, what is the value of X?
A. 112.5 B. 450 C. 15 D. 50625

15. Simplify $\frac{1}{4} \div 28 - \frac{3}{4} + 1\frac{1}{2} \times (5 \frac{1}{8} + 8\frac{3}{8})$
A. 7 B. 14 C. 0 D. no answer

16. Find the missing number: 56 3 - 4 * 8 = 1 4 5
A. 2 B. 4 C. 3 D. 1

17. The prime factors of 144 are:
A. 2, 3 B. 2, 3, 4 C. 3, 4, 12 D. 2, 3, 4, 6

18. Find the square root of 784.
A. 614 656 B. $2^2 \times 7$ C. 392 D. $4 \times 7^2$

19. What is the minimum number that can be added to 11 to make it divisible by 2?
A. 1 B. 11 C. 3 D. 21

20. Which of the following numbers is the largest?
A. -500 B. 0 C. -300 D. -1

21. Divide the product of $1\frac{2}{3}$ and $1\frac{2}{5}$ by $2\frac{1}{3}$.
A. 0 B. 1 C. 7 $\frac{7}{45}$ D. 1 $\frac{11}{35}$

22. Find the difference between the sum of $2\frac{2}{3}$ and $\frac{2}{5}$, and $\frac{1}{15}$.
A. 3 B. 3 $\frac{2}{15}$ C. 1 $\frac{17}{30}$ D. 46

23. Express the answer to 23.45 x 12.33 to 3 decimal places
24. What fraction of the diagram below is not shaded?

```
   12cm
     
  18cm
   
```

A. ½ B. 1/3 C. 2/3 D. 1 1/2

25. I spent 7/32 of my income on rent, ¼ of it on food and 1/8 on transport. What fraction of my income did I have left?

A. 19/32 B. 15/32 C. 17/32 D. 13/32

26. Ade is 20 years old. He is 3 years younger than Chidi who is 7 years older than Aminu. How older is Ade than Aminu?

A. 3 yrs B. 4 yrs C. 5 years D. 7 yrs

27. Amu’s age is one third his father’s age. He is X years old and his father’s age is Y. Therefore

A. Y = 1/3X B. 3Y = X C. 3Y = 1/3X D. Y = 3X

28. I divided a number by 7. The result is a perfect square of another number. Which of the following is the number?

A. 63 B. 49 C. 35 D. 14

29. 21 is added to a number. The result is divided by 4 which finally gives 6. What is the number?

A. 2 B. 3 C. 14 D. 45

30. Last month, I bought 4Kg of rice with N800. This month, I bought 5Kg of rice with same amount. By how much had the price of 1Kg of rice changed?

A. N 200 B. N160 C. N100 D. N40

31. I had N8460. I spent half of it on my school uniform and one-third of the remainder on my school sandals, how much was left with me?

A. N1420 B. N2820 C. N1403.33 D. N7016.3

32. A bus driver started a journey with 10 passengers. At every bus stop, he picks 3 more passengers but drop 1. At the end of the journey, he had 22 passengers. How many stops did he make?

A. 1 B. 3 C. 5 D. 7

33. In Scholars Junior School, there are a gross of male students and 16 dozens female students. How many students are in the school?

A. 17 B. 212 C. 292 D. 336

34. A train coach is loaded with 750.05 Kg of cocoa, 895kg of yam and 950g of cotton wool. This load equals:

A. 164.6Kg B. 1646.0Kg C. 16.46Kg D. 2595.05Kg

35. How long will it take to earn a simple interest of N8400 on N42000 at 5% per annum?

A. 2yrs B. 3yrs C. 4yrs D. 5yrs

36. A car rashed at 108Km/hr for 50 minutes. How far did it cover?

A. 129.6m B. 9000m C. 5400m D. 90000m

37. 12 men can do a job for 28 days. How many days can 16 men do the same job?

A. 21days B. 3 1/2 days C. 32days D. 37 1/3 days

38. N32000 was share among Tola, Chinedu and Abdul in the ratio of 4: 5: 7 respectively. How much was Chinedu’s share?

A. N 8000 B. N 10000 C. N 14000 D. N 16000

39. The circumference of a circle is 132m. Find its radius.

A. 21m B. 42m C. 6.7m D. 36m

40. Mr Bamgbose is 30 years old. His son is 10 years old. What was the ratio of their age two years ago?

A. 1/3 B. 5/7 C. 2/7 D. 36

41. Simplify \( P + X \) if \( P \) equals 20 and \( X \) equals 7 , \( \frac{P^2 - X^2}{P - X} \)

A. 27 B. 13 C. 351 D. \( \frac{1}{27} \)

42. This diagram shows the food loved by JS 3 students

```
Rice 15  7  5
Beans
```

How many JS 3 students prefer rice and beans together?

A. 3 B. 20 C. 27 D. 7

43. There are 5 red balls and 10 blue balls in a bag. If I take one of the ball, what is the probability that it is red?

A. 5 B. 1/5 C. 1/3 D. 15

44. If \( \frac{Y}{4} = \frac{1}{2} \), find the value of Y.

A. 1/2 B. 2 C. 8 D. 6

45. In Scholars Maths Whiz Kids quiz, Segun got 60 questions correctly, Kunle got \( \frac{3}{4} \) of what Segun scored while Lasisi scored \( \frac{2}{3} \) of what Kunle got. Show their performance in form ratio.


46. Find the volume of a cylinder of radius 7m and height 2m. \( \pi = \frac{22}{7} \)

A. 22m\(^3\) B. 154m\(^3\) C. 308m\(^3\) D. 44m\(^3\)
47. Side QS = 14cm is the diagonal of the square PQRS. Find the shaded area.

A 196cm²  B 98cm²  C 49cm²  D 56cm²

48. Find the area of the figure below:

A. 60cm²  B. 48cm²  C. 72cm²  D. 576cm²

49. A river flows at an average speed of 5m/s. What is the average speed in Km/hr?

A. $\frac{5}{1000}$Km/hr  B. 5000Km/hr  C. 18Km/hr  D. $\frac{7}{18}$Km/h

Find the value of x in questions number 46 to 48.

50. \[ \frac{3x}{2} = \frac{1\frac{1}{2}x}{2} \]

A. 40°  B. 45°  C. 50°  D. 36°

51. \[ \angle X \angle 47° \]

A. 43°  B. 133°  C. 137°  D. 47°

52. \[ \angle X \angle 58° \]

A. 32°  B. 122°  C. 146°  D. 58°

53. Find the perimeter of the shape below:

A. 34cm  B. 25cm  C. 50cm  D. 36cm
64. Express South 60° East as a true bearing.
   A. 60°  B. 30°  C. 120°  D. 90°

65. If P = number of faces of a cuboid and K = number of edges, what is the value of \( P/K \)?
   A. no answer  B. 1/2  C. 2/3  D. 2

Write answers to no. 66 to 75

66. If 50 \( \equiv \) 2, 5 and 72 \( \equiv \) 2, 3, therefore 80 \( \equiv \) 2, 5

67.  
   \[
   \begin{array}{c}
   15.6 \\
   34.7 \\
   15 \\
   \end{array}
   \begin{array}{c}
   4.4 \\
   11.5 \\
   ? \\
   \end{array}
   \begin{array}{c}
   68.4 \\
   399.05 \\
   \end{array}
   \]

68.  
   \[
   \begin{array}{c}
   1500 \\
   4000 \\
   3000 \\
   \end{array}
   \begin{array}{c}
   2500 \\
   5500 \\
   ? \\
   \end{array}
   \begin{array}{c}
   2450 \\
   8450 \\
   \end{array}
   \]

69. \( \text{CUBE} \)

70. \( \text{CYLINDER} \)

71.  
   \[
   \begin{array}{c}
   20 \\
   14 \\
   4 \\
   \end{array}
   \begin{array}{c}
   17 \\
   14 \\
   ? \\
   \end{array}
   \begin{array}{c}
   27 \\
   70 \\
   \end{array}
   \]

72.  
   \[
   \begin{array}{c}
   30 \\
   57 \\
   ? \\
   \end{array}
   \begin{array}{c}
   4 \\
   7 \\
   ? \\
   \end{array}
   \begin{array}{c}
   2 \\
   ? \\
   \end{array}
   \]

73.  
   \[
   \begin{array}{c}
   4, 5, 8, 1, 2, 4, 5, 1, 2, ? \\
   \end{array}
   \begin{array}{c}
   5 \\
   4 \\
   ? \\
   \end{array}
   \begin{array}{c}
   2 \\
   3 \\
   \end{array}
   \]

74. The shorter hand of a clock moves through 720° in a day. How many degree would it have covered by 11am? 330

75.  
   \[
   \begin{array}{c}
   16 \\
   \end{array}
   \begin{array}{c}
   8 \\
   4 \\
   2 \\
   \end{array}
   \begin{array}{c}
   6 \\
   \end{array}
   \begin{array}{c}
   27 \\
   9 \\
   3 \\
   \end{array}
   \begin{array}{c}
   ? \\
   \end{array}
   \]

Good Luck. A life without Mathematics is a life without plan. –Alonge T.O.