1. What is **5 036 507** written in words?
   A. Fifty million, thirty six thousand, five hundred and seven.
   B. Five million, three hundred and six thousand, five hundred and seven.
   C. Five million, thirty six thousand, five hundred and seven.
   D. Five million, thirty six thousand and fifty seven.

2. What is the difference in the total values of digits 9 and 7 in the number **4 967 832**?
   A. 893 000   B. 900 000
   C. 907 000   D. 7 000

3. What is the place value of digit **2** in the product of **987 and 63**?
   A. Tens of thousands
   B. Thousands
   C. Hundreds
   D. Hundreds of thousands

4. Which one of the following inequalities is correct?
   A. $\frac{9}{13} = 0.69$
   B. $0.69 > \frac{9}{13}$
   C. $\frac{9}{13} < 0.69$
   D. $\frac{9}{13} > 0.69$

5. What is **178 956** rounded off to the nearest thousand?
   A. 178 000
   B. 180 000
   C. 179 000
   D. 178 900

6. What is the next number in the following pattern?
   4, 9, 25, 49 _____
   A. 121   B. 169
   C. 81   D. 196

7. The area of a square is 1 369 cm². What is the length of one side of the square?
   A. 33 cm   B. 43 cm
   C. 47 cm   D. 37 cm

8. In a certain school, the number of pupils was **1 400**. Out of the number, **15%** of the pupils were transferred to another school. How many pupils remained in the school?
   A. 210   B. 1 190
   C. 119   D. 21

9. What is the product of **15.69** and **12.34** correct to two decimal places?
   A. 193.62   B. 193.60
   C. 193.61   D. 193.63

10. What is the difference between eight million, four hundred and ninety three thousand, two hundred and eighty one and two million, sixty eight thousand, two hundred and three in numerals?
    A. 6 425 078
    B. 6 420 578
    C. 6 425 708
    D. 6 425 780

11. What is the value of:
    73 + 58 ÷ (40 - 11) x 3 - 48?
    A. 51   B. 61
    C. 41   D. 31

12. In a given wheat season, Lemayian leased four hectares of land for sh. 20 000. He sowed 8 bags of wheat which he bought at sh. 1 200 each. He spent sh. 6 000 on ploughing, sh. 2 000 on planting, bought two bags of D.A.P fertilizer each sh. 1 800 and sh. 4 500 on harvesting. He harvested 80 bags of wheat which he sold at sh. 1 500 per bag. What profit did Lemayian make from the cultivation of wheat that season?
    A. sh. 36 700
    B. sh. 74 300
    C. sh. 67 300
    D. sh. 53 600

13. Too has a square farm which measures 375 metres on each side. What is the area of his farm in hectares?
    A. 14.625   B. 1.40625
    C. 14.0625   D. 140.625

14. A function was attended by men, women and children. There were 600 men and twice as many women. A total of sh. 171 000 was raised. If each man contributed sh. 100, each woman sh. 80 and each child sh. 50, how many children attended the function?
   A. 300   B. 150
   C. 600   D. 1 200

15. What is the sum of the first ten prime numbers?
   A. 131   B. 137
   C. 123   D. 129

16. A class has 72 pupils. One day, 18 pupils were absent. What fraction of the pupils was present that day?
   A. $\frac{1}{4}$ B. $\frac{1}{6}$
   C. $\frac{3}{4}$ D. $\frac{8}{9}$

17. Arrange the fractions $\frac{9}{11}$, $\frac{7}{13}$, $\frac{9}{17}$ and $\frac{11}{19}$ in an ascending order.
   A. $\frac{8}{11}$, $\frac{11}{19}$, $\frac{7}{13}$, $\frac{9}{17}$
   B. $\frac{9}{17}$, $\frac{7}{13}$, $\frac{11}{19}$, $\frac{8}{11}$
   C. $\frac{7}{13}$, $\frac{9}{17}$, $\frac{11}{19}$, $\frac{8}{11}$
   D. $\frac{7}{13}$, $\frac{8}{11}$, $\frac{9}{17}$, $\frac{11}{19}$

18. The total area of 16 square windows is 25 m². What is the length of a side of each window?
   A. $1\frac{1}{4}$ B. $1\frac{1}{8}$
   C. $1\frac{1}{3}$ D. $1\frac{1}{16}$

19. What is the place value of digit 3 in the number 15.23989?
   A. Ones   B. Tenths
   C. Hundredths   D. Thousandths

20. An empty lorry weighs 3.85 tonnes. When loaded with eighty bags of maize, it weighs 9.05 tonnes. What is the mass of each bag of maize in kg?
   A. 90 kg   B. 65 kg
   C. 85 kg   D. 75 kg

21. What is the value of :
   $\frac{0.008 \times 5.6 \times 8.4}{2.8 \times 0.14}$?
   A. 0.0096
   B. 9.6
   C. 0.096
   D. 0.96

22. Which of the following groups of decimals increases by thousandths?
   A. 0.8352, 0.8362, 0.8372, 0.8382
   B. 0.2348, 0.2448, 0.2548, 0.2648
   C. 0.5921, 0.5922, 0.5923, 0.5924
   D. 0.6568, 0.7568, 0.8568, 0.9568

23. Dennis travelled $\frac{3}{5}$ of a journey by train, $\frac{3}{4}$ of the remainder by bus and cycled the rest of the journey. If he cycled 9 km, how long was the journey?
   A. 120 km   B. 150 km
   C. 90 km   D. 80 km

24. Koech planted 360 avocado seedlings in 2020. In 2021, he increased the seedlings to 420. What was the percentage increase of the seedlings?
   A. $14\frac{2}{7}\%$
   B. $16\frac{2}{3}\%$
   C. 20%
   D. 60%

25. Decrease 5 metres by 15%
   A. 3 m 25 cm
   B. 2 m 85 cm
   C. 5 m 75 cm
   D. 4 m 25 cm

26. The trapezium below represents Chumo's plot of land.

   250 m
   120 m
   420 m

   What is the area of the plot in Ares?
   A. 402   B. 40.2
   C. 4.02   D. 4 020

27. A pipe has a radius of 14 cm. The length of the pipe is 125 cm. What is the surface area of the pipe? (Take $\pi = \frac{22}{7}$)
   A. 11 616 cm²
   B. 11 308 cm²
   C. 1 100 cm²
   D. 11 000 cm²

28. Below are properties of a certain quadrilateral:
  i) *Has two pairs of parallel lines.*
  ii) *Diagonals are valid but bisect each other at right angles.*
  Which one of the following is likely to be the quadrilateral described?
  A. Trapezium
  B. Rhombus
  C. Parallelogram
  D. Square

29. Mutuku deposited sh. 90 000 in a saving institution that paid simple interest at the rate of 13% per annum. How much money was in his account at the end of three and a half years?
  A. Sh. 40 950
  B. Sh. 17 550
  C. Sh. 130 950
  D. Sh. 107 550

30. Selina bought the following items from a shop:
  3 kg of rice @ sh. 90
  2 kg of greengrams for sh. 250
  1½ kg of sugar @ 120
  3 loaves of bread @ sh. 55
  She paid with a one thousand shilling note. How much balance was she given?
  A. Sh. 135   B. Sh. 145
  C. Sh. 125   D. Sh. 155

31. Three bells A, B and C are set to ring after 16 minutes, 24 minutes and 32 minutes respectively. The bells are set at the same time. After how many minutes will they ring together again?
  A. 64 minutes
  B. 192 minutes
  C. 128 mintes
  D. 96 minutes

32. The marked price of a Bajaj motorcycle is sh. 120 000. Juma bought it on cash at sh. 108 000. What was the percentage discount allowed?
  A. 12%
  B. 10%
  C. 20%
  D. 11⅑%

33. A water tank is in the shape of a cylinder. Its height is 2.5 metres and its radius is 0.35 metres. What is the volume of the tank? (Take $\pi = {}^{22}/_7$)
  A. 1.2562 m³
  B. 0.308 m³
  C. 0.9625 m³
  D. 0.5625 m³

34. The volume of a rectangular tank is 10 140 cm³. The base is a square and its height is 15 cm. What is the length of one side of the base?
  A. 26 cm   B. 18 cm
  C. 16 cm   D. 28 cm

35. Wanjala had 8 one thousand shilling notes, 12 five hundred shilling notes and 16 two hundred shilling notes. He changed the money into fifty shilling notes. How many fifty shilling notes did he get?
  A. 44   B. 144
  C. 244   D. 344

36. Which of the following measurements will form a right angled triangle?
  A. 7 cm, 15 cm, 17 cm
  B. 9 cm, 40 cm, 41 cm
  C. 5 cm, 12 cm, 15 cm
  D. 6 cm, 8 cm, 14 cm

37. The figure drawn below is a parallelogram.
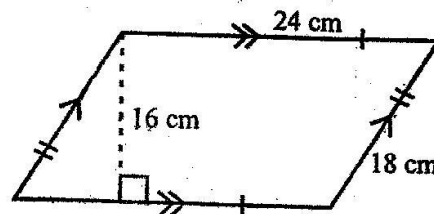
Calculate the area of the figure.
  A. 192 cm²   B. 144 cm²
  C. 384 cm²   D. 432 cm²

38. Kuntai sold a suitcase for sh. 2 100. He made a loss of 12½%. What was the buying price of the suitcase?
  A. Sh. 2 400
  B. Sh. 2 800
  C. Sh. 1 875
  D. Sh. 1 950

39. Trees planted in a school increased from 600 in the year 2018 to 720 in the year 2019. What was the ratio increase?
    A. 5:6
    B. 6:5
    C. 2:3
    D. 3:2

40. The average mass of a class of 30 pupils was 49.5 kg. When the mass of the teacher was added, the average mass became 50.3 kg. What was the mass of the teacher?
    A. 92.3 kg
   B. 81.3 kg
    C. 65.3 kg
    D. 74.3 kg

41. The cost of 8 litres of petrol is sh. 1 000. What is the cost of three litres?
    A. Sh. 425
    B. Sh. 225
    C. Sh. 375
    D. Sh. 1 250

42. The hire purchase price of a gas cooker is sh. 27 000. Nelly paid a deposit of sh. 4 500 and paid the balance in 18 equal monthly instalments. How much was each instalment?
    A. Sh. 2 500
    B. Sh. 1 250
    C. Sh. 3 750
    D. Sh. 1 500

43. Manywele's land is formed by a trapezium, a semicircle and a triangle joined as drawn in the figure below.
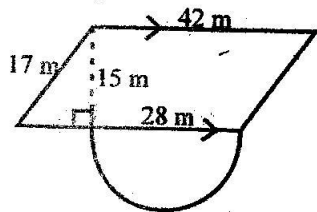
    Calculate the area of the land.
    A. 993 m²
    B. 733 m²
    C. 623 m²
    D. 893 m²

44. Nyongesa received sh. 4 000 as commission on some goods he sold. If the commission was 5% of the value of goods, what was the value of the goods sold?
    A. Sh. 110 000
    B. Sh. 100 000
    C. Sh. 90 000
    D. Sh. 80 000

45. The table below shows a bus timetable from Nyeri to Nakuru.

Town	Arrival time	Departure time
Nyeri	-	7.15 am
Nairutia	10.00 am	10.45 am
Nyahururu	3.30 pm	4.00 pm
Subukia	6.15 pm	6.20 pm
Nakuru	8.45 pm	-

    How long did the bus travel from Nairutia to Subukia?
    A. 7 hrs 30 min
    B. 7 hrs 15 min
    C. 7 hrs 45 min
    D. 6 hrs 45 min

46. An open rectangular tank is 1.6 m long, 1.2 m wide and 0.8 m high. Calculate the surface area of the tank.
    A. 1.536 m²
    B. 8.4 m²
    C. 6.4 m²
    D. 9.2 m²

47. Construct triangle ABC in which line AB = 8 cm, angle CAB = 60° and angle CBA = 50°. Draw a circle that touches points A, B and C. Measure the radius.
    A. 3.4 cm
    B. 4.3 cm
    C. 1.8 cm
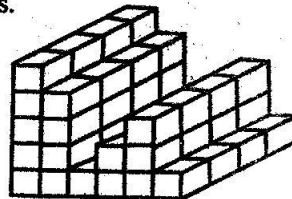   D. 2.4 cm

48. On a certain section of the Safari Rally, Munyao travelled 432 km in 4 hours. What was his average speed in m/s?
    A. 108 m/s
    B. 25 m/s
    C. 15 m/s
    D. 30 m/s

49. In a map, the sacle drawing is 1:50 000. What is the actual distance of a road which is 18 cm long on the map?
    A. 9 km
    B. 90 km
    C. 9 000 km
    D. 900 km

50. The figure below represents a stack of cubes.

    How many more cubes are required to make it complete?
    A. 64
    B. 120
    C. 56
    D. 44