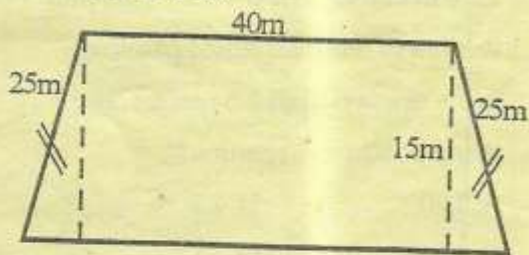


1. Which of the following is 2020605.07 in words?
- A. Twenty million two hundred and six thousand and five and seven hundredth.
- B. Two million twenty thousand six hundred and five and seven tenth
- C. Twenty million twenty thousand six hundred and five and seven hundredth
- D. Two million twenty thousand six hundred and five and seven hundredth
2. What is the difference between the total values of digits in the thousands and hundreds position in number 897250?
- A. 200 B. 7200
- C. 6800 D. 7000
3. In Nyandarua county, the population of men is 351998 and that of women is 409492. What is their sum to the nearest thousands?
- A. 761490 B. 771490
- C. 771000 D. 761000
4. What is the next number in the pattern 4, 9, 25, 49, _____
- A. 81 B. 121
- C. 64 D. 169
5. What is the value of $6(9^2 - 3^2) + 63 \div 9 + 6$
- A. 67 B. 439
- C. 445 D. 61
6. Write the following from the largest to the smallest?
0.74, 76%, $\frac{5}{6}$, $\frac{3}{4}$
- A. $\frac{5}{6}$, $\frac{3}{4}$, 76%, 0.74,
- B. $\frac{5}{6}$, 76%, $\frac{3}{4}$, 0.74,
- C. 0.74, $\frac{3}{4}$, 76%, $\frac{5}{6}$
- D. 0.74, 76%, $\frac{3}{4}$, $\frac{5}{6}$
7. Three bells are set to ring out at intervals of 24 minutes, 12 minutes and 18 minutes respectively. If they all ring together at 8.20am at what time will they ring again together?
- A. 10.32am B. 1.12am
- C. 7.02am D. 9.32am
8. What is the value of $3\frac{3}{7} \div \frac{6}{7} + \frac{3}{4}$ of $24 - \frac{1}{6} \div \frac{1}{3}$
- A. $21\frac{1}{2}$ B. $20\frac{1}{2}$
- C. $21\frac{17}{18}$ D. $22\frac{1}{2}$
9. What is the place value of the digit 2 obtained after working out $0.4032 + 14$?
- A. Tenths
- B. Hundredths
- C. Thousandths
- D. Ten thousandth

10. Calculate the area of the figure show below in ares?

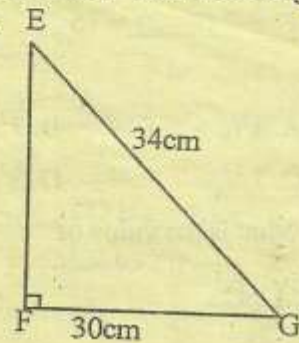


- A. 10.5 B. 1050
 C. 9 D. 900
11. What is the value of $\frac{12.0 - 4.8 \times 0.5 + 2.45}{0.5}$
- A. 12.05 B. 7.15
 C. 24.1 D. 14.3
12. Otieno gave 0.12 of his land to his wife, 0.25 to his son and 0.3 to his daughter. If he had 7.2 hectares of land, how many hectares was he left with?
- A. 0.33 B. 4.824
 C. 2.376 D. 0.67
13. What is the square root of 4.2025?
- A. 0.205 B. 2.05
 C. 25 D. 205
14. Ruto spent $\frac{1}{3}$ of his money on school uniforms, $\frac{1}{8}$ on books, $\frac{2}{3}$ of the remainder on food and saved the rest. What total fraction of his money did he save and spend on school uniforms?
- A. $\frac{13}{24}$ B. $\frac{13}{36}$
 C. $\frac{13}{48}$ D. $\frac{37}{72}$

15. After an increase of 25%, Kamau's salary became sh 31250. What was his salary before the increase?

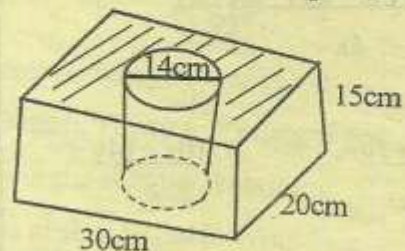
A. sh 25000 B. sh 39062.50
 C. sh 23437.50 D. sh 31000

16. The diagram below represents triangle EFG in which line $FG = 30\text{cm}$, line $EG = 34\text{cm}$ and angle $EFG = 90^\circ$



Calculate the perimeter of the triangle

- A. 64cm B. 256cm
 C. 80cm D. 240cm
17. Akoko made a hollow block as shown in the figure below. The measurements of the block are 30cm by 20cm by 15cm. The diameter of the hollow cylindrical space is 14cm

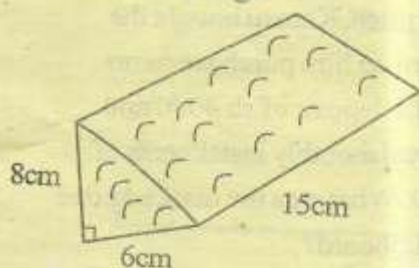


What is the volume of the block?

- A. 9000cm^3 B. 2310cm^3
 C. 6690cm^3 D. 11310cm^3

18. Construct a parallelogram EFGH such that lines $GH = 8.5\text{cm}$, $HE = 6\text{cm}$ and angle $GHE = 55^\circ$.
What is the length of a half the diagonal H. F?
A. 6.4cm B. 3.4cm
C. 12.8cm D. 6.8cm
19. What is the value of x in the equation
 $4 + \frac{7(x-2)}{4} = 15$
A. $4\frac{2}{7}$ B. $7\frac{2}{8}$
C. $7\frac{2}{4}$ D. $8\frac{2}{7}$
20. What is the value of
 $\frac{5y^2\sqrt{x^2}}{2x}$
If $x = 5$ and $y = 6$?
A. $18\frac{1}{2}$ B. $17\frac{1}{2}$
C. 185 D. 175
21. Which one of the following expressions is the simplest form of
 $\frac{2x + 6(x + 2y) - 2x + 2y}{4x}$
A. $\frac{3x + 7y}{2x}$ B. $\frac{10x + 14y}{4x}$
C. $\frac{6x + 14y}{4x}$ D. $\frac{5x + 7y}{2x}$
22. The area of a square plot of land is 2.56 hectares. The owner of the plot wanted to fence all round placing posts at interval of 2.5 metres. How many posts were required?
A. 160 B. 25
C. 256 D. 161
23. A cylindrical plastic tank whose height is 1.4m has a radius of 35cm. If it's $\frac{3}{4}$ full of water, how many more litres are needed to fill the tank? (Take $\pi = \frac{22}{7}$)
A. 539000 B. 134750
C. 539 D. 134.75
24. A pick-up whose mass is 1.2 tonnes when empty was loaded with 60 bags of rice each weighing 25kg and seven bags of maize each weighing 90kg. What was the total mass, in tonnes, of the loaded pick-up?
A. 3.33 B. 3330
C. 2.13 D. 2130
25. Inter school soccer game started at 10.45 am. After 45 minutes, players went for a 15min break. The game then took 55 minutes to end. At what time in 24 hour clock system did the game end?
A. 12:40pm B. 1240hrs
C. 1:40pm D. 0140hrs

26. The diagram below represents a wooden wedge.



It was painted all the faces. What was the total area painted?

- A. 360cm^2 B. 384cm^2
 C. 720cm^2 D. 408cm^2
27. The radius of a bicycle wheel is 35cm. How many times will it turn to cover a distance of 8.8km?
- A. 400 B. 800
 C. 4000 D. 8000
28. Wanja bought an item for sh 3240 after getting a discount of 10%. What was the marked price of the item?
- A. sh 324 B. sh 3564
 C. sh 2916 D. sh 3600
29. Ali is now four years older than Mary. If Mary's age is represented by y what will be the total ages after 10 years?
- A. $2y + 24$ B. $y + 24$
 C. $2y - 24$ D. $2y + 14$

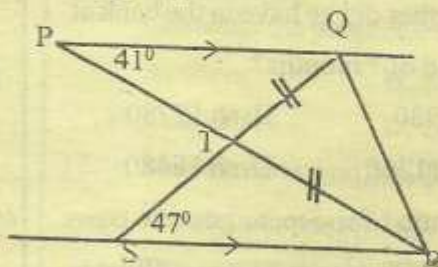
30. Construct an equilateral triangle of side 6.5cm. Then draw a circle touching all the sides of the triangle. What is the radius of the circle?

A. 4cm B. 2cm
 C. 7.4cm D. 3.7cm

31. What is the difference in the value between the square root of $2^{14/25}$ and the square of $1^{1/2}$?

A. $1^{3/5}$ B. $13/20$
 C. $2^{1/4}$ D. $3^{17/20}$

32. In the figure below, line PQ is parallel to line SR and QT is equal to TR. Angle QPT = 41° and angle TSR = 47°



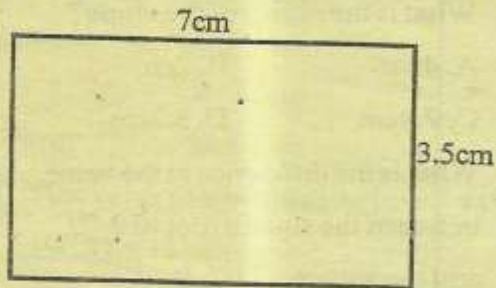
What is the size of angle PQR?

A. 88° B. 92°
 C. 46° D. 93°

33. A hawker bought 150 oranges at sh 6.00 each. Thirty five oranges got spoiled and she sold the remaining oranges at sh 6.50 each. What loss did she make?

A. sh 900 B. sh 975.50
 C. sh 152.50 D. sh 75.50

34. The diagram below shows a plot of land drawn to a scale of 1:10000. What is the actual area of the plot in hectares?



- A. 24.5 B. 245000
C. 245 D. 2450
35. Ichora deposited sh 16800 in a bank which gave interest at the rate of 10% per annum. How much money altogether did he have in the bank at the end of 7 months?
- A. sh 980 B. sh 17780
C. sh 11760 D. sh 18480
36. The ratio of sheep, to goats to cows is 3:5:2. There are 72 cows. What is the total number of all animals?
- A. 180 B. 288
C. 360 D. 144
37. What is the area of the curved surface of a cylinder of radius 14cm and a height of 35cm?
- A. 1232cm² B. 3080cm²
C. 3696cm² D. 4312cm²

38. The hire purchase price of a cupboard was 25% more than the marked price. Kamau bought the cupboard on hire purchase terms. He paid a deposit of sh 4000 and eight equal monthly instalments of sh 1350. What was the marked price of the cupboard?

- A. sh 14800 B. sh 10800
C. sh 11840 D. sh 13500

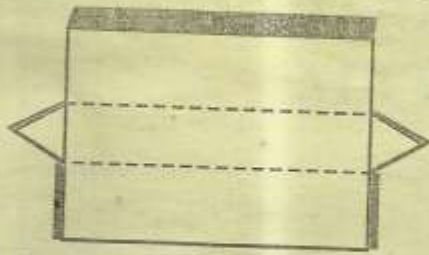
39. A shopkeeper had money in form of notes as shown below.

value of notes in shillings	500	200	100	50
number of notes	5	16	8	12

If he changed all that money into fifty shilling notes, how many notes did he get?

- A. 130 B. 7100
C. 6500 D. 142
40. The total number of pupils enrolled in schools in a certain county was 72000. In a pie chart the number enrolled in secondary schools was represented by an angle of 120° while that in the primary schools was represented by 150°. The rest were enrolled in the pre primary schools. What was the number in the pre-primary schools?
- A. 18000 B. 24000
C. 30000 D. 42000

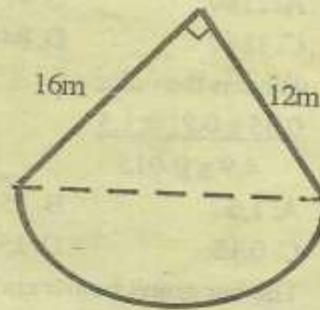
41. The figure below shows a net made up of three rectangles and two triangles



It was folded to form a solid, what is the sum of its edges and faces when folded?

- A. 15 B. 9
C. 20 D. 14
42. Abigail is paid a basic salary of sh 15000 in a month as a sales agent. She is also paid a $2\frac{1}{2}\%$ commission on goods sold above sh 20000. In a certain month, she sold goods worth sh 140000. How much money did she earn in total that month?
- A. sh. 18000 B. sh 3500
C. sh 3000 D. sh 18500
43. Sabina bought 2kg of sugar @ sh 140, $1\frac{1}{2}$ kg of rice at sh 160 per kg, $\frac{1}{2}$ kg of meat for shs. 300 and 6 loaves of bread @ sh 55. She gave the shopkeeper 3 - five hundred shilling notes. What balance did she get?
- A. sh 1150 B. sh 1000
C. sh 500 D. sh 350

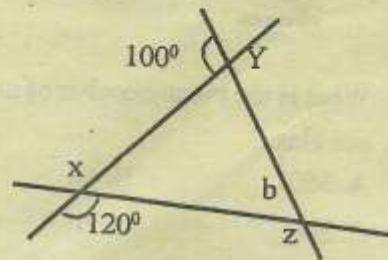
44. A cylindrical tank of radius 2.8m contains 73.92m^3 of water. What is the depth of the water in the tank? (Take $\pi = \frac{22}{7}$)
- A. 0.3m B. 3.0m
C. 4.2m D. 0.75m
45. The figure below represents a plot bound by two straight edges and a semi circle.



What is the area of the plot?

(Take $\pi = 3.14$)

- A. 410m^2 B. 96m^2
C. 218m^2 D. 314m^2
46. Which one of the following is true about a quadrilateral?
- A. All sides are equal
B. All angles are equal
C. The sum of interior angles is 360°
D. Opposite sides are parallel.
47. The diagram below shows three lines which intersect to form triangle XYZ



What is the value of the angle marked b?

- A. 80° B. 40°
C. 60° D. 140°

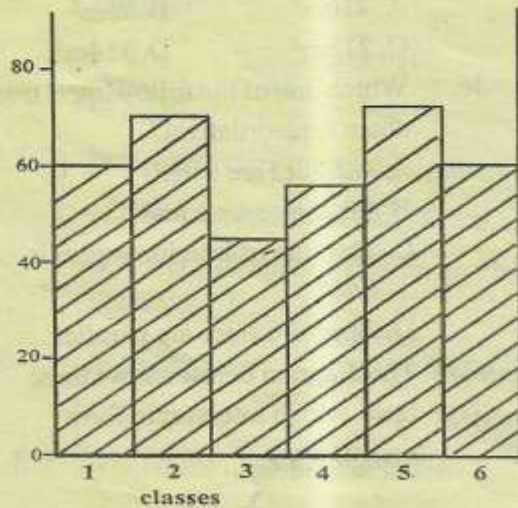
48. The number of children in a town is twice that of women. There are 320 more women than men. If there are 4360 children, how many men are there in the town?

- A. 2180 B. 4040
C. 1860 D. 8400

49. What is the value of $\frac{0.35 \times 0.21 \times 1.5}{4.9 \times 0.015}$

- A. 1.5 B. 15
C. 0.15 D. 150

50. The bar graph below shows the number of pupils in six classes in a school.



What is the mean number of pupils per class?

- A. 360 B. 60
C. 300 D. 50