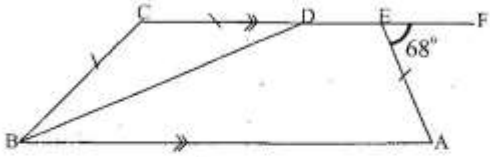


1. Write three million three thousand three hundred and three and thirty three hundredths in symbols.
 A. 3030303.33
 B. 3300303.033
 C. 3003303.33
 D. 3003303.033
2. Round off 157998 to the nearest thousands.
 A. 157000
 B. 158000
 C. 157900
 D. 158
3. By how many times is the total value of digit 8 greater than the total value of digit 5 in 3842530?
 A. 16000
 B. 7995000
 C. 800500
 D. 1600
4. What is the value of $\frac{1}{2}$ of $(\frac{5}{6} - \frac{3}{4}) + \frac{2}{3} - \frac{3}{8}$?
 A. $\frac{2}{3}$
 B. $\frac{1}{6}$
 C. $\frac{1}{12}$
 D. $\frac{1}{3}$
5. What is the quotient of LCM of and the GCD of 60 and 40?
 A. 6
 B. 12
 C. 140
 D. $\frac{1}{3}$
6. What is the value of $\frac{3.3 \times 5.7 \times 2.4}{1.1 \times 0.12 \times 0.19}$?
 A. 1800
 B. 3600
 C. 0.36
 D. 0.18
7. In a church there were 112 men. The number of women was 64 more than that of men. The number of youths was twice that of men and that of children was 40 less than women. How many people were in the church?
 A. 176
 B. 216
 C. 648
 D. 552
8. What is the value of $\frac{4(8^2 + 4^2) + 12}{4(12 - 8)}$?
 A. 24
 B. $20\frac{3}{4}$
 C. 20
 D. 32
9. In a certain constituency $\frac{1}{8}$ of farmers plants maize, $\frac{3}{7}$ of the remainder plants potatoes, $\frac{2}{5}$ of the remainder plants onions and the rest coffee. If the land under coffee is 6 hectares, how many more hectares are under potatoes than onions?
 A. 4 ha
 B. 20 ha
 C. 10 ha
 D. $3\frac{1}{2}$ ha
10. What is the value of p in $\frac{6p+8}{2^2} - 2 = 3$?
 A. $4\frac{2}{3}$
 B. 2
 C. $1\frac{1}{3}$
 D. $2\frac{2}{3}$

11. In the figure below, ABCE is a trapezium. Line $CB = CD = AE$. Line BD bisect angle ABC. Angle $AEF = 68^\circ$. What is the size of angle BDE?



- A. 112°
 B. 34°
 C. 146°
 D. 136°
12. The price of machine was sh. 15000. The price was increased by 20%. Later, the price was decreased by 20%. By how much was the new price greater than the initial price?
 A. sh. 15000
 B. sh. 18000
 C. sh. 12000
 D. sh. 14400
13. A cylindrical log of diameter 14cm and length of 30cm was cut into two equal parts along the diameter. What was the surface area of each part?
 A. 1234cm^2
 B. 574cm^2
 C. 1628cm^2
 D. 308cm^2
14. The perimeter of a rhombus shaped piece of land is 80m. The shorter diagonal is 24m. What is the area of the piece of land in ares?
 A. 9.6
 B. 3.84
 C. 1.92
 D. 4.8

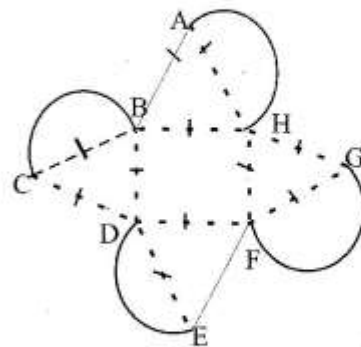
15. What is the next number in the pattern
 $\frac{2}{3}, 1\frac{1}{2}, 2\frac{1}{3}, 3\frac{1}{6}, \dots$

- A. $3\frac{3}{4}$
 B. $4\frac{1}{3}$
 C. 4
 D. $4\frac{2}{3}$

16. A tray of eggs contains 30 eggs. Koech bought six trays each 300. He paid sh. 200 for transport. During transportation eggs in one tray got destroyed. He sold the rest at sh. 15 each. What was his percentage profit?

- A. 35%
 B. 25%
 C. 20%
 D. $12\frac{1}{2}\%$

17. The figure below is made up of a square BDFH, four equal equilateral triangles and four equal semicircles. Line $AB = 14\text{cm}$.



- What is the perimeter of the figure?
 A. 56cm
 B. 88cm
 C. 32cm
 D. 144cm

18. A sales agent is paid a basic salary of sh. 26000 plus a 6% commission on value of goods she sold goods above sh. 110000. In one month she earned a total of sh. 38000. What was the value of goods sold?

- A. sh. 200000
- B. sh. 90000
- C. sh. 310000
- D. sh. 32600

19. A tank was full of water. Maria started watering her vegetables at 4.28pm using the water. The water flowed at a rate of 1.2 litres per second. The water got finished at 6.28pm. What was the capacity of the tank in litres?

- A. 8640
- B. 2.4
- C. 144l
- D. 4320

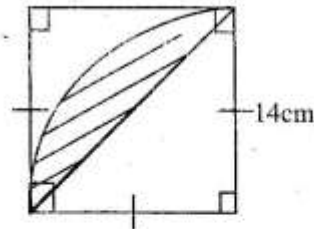
20. The sum of Kelvin and Dennis 5 years ago was 48 years. If Kelvin is 8 years younger than Dennis today, how old was Dennis 5 years ago?

- A. 25 years
- B. 20 years
- C. 33 years
- D. 28 years

21. Construct a parallelogram PQRS such that $PQ = 7\text{cm}$, $QR = 5\text{cm}$ and angle $QPS = 120^\circ$. Construct the bisectors of angle PSR and SPQ and let the bisectors meet at point X. What is the size of angle PXS?

- A. 30°
- B. 45°
- C. 60°
- D. 90°

22. What is the area of the shaded part in the figure below?

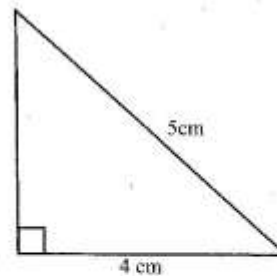


- A. 124cm^2
- B. 98cm^2
- C. 56cm^2
- D. 42cm^2

23. What is the square root of 0.9216?

- A. 9.6
- B. 0.96
- C. 0.096
- D. 96

24. The scale used in a map is 1:3000. What is the actual area in hectares of the piece of land represented by the figure below?



- A. 54ha
- B. 5400ha
- C. 54000ha
- D. 5.4ha

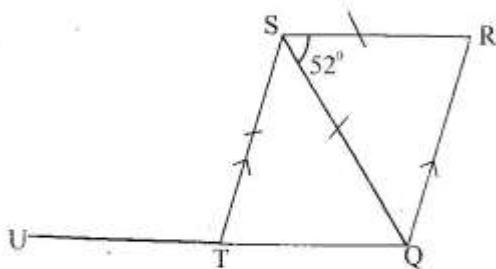
25. Two motorists Peter and Oloo left town A for town B at the same time. Peter drove at a constant speed of 90km/h and took 4 hours. Oloo drove at a constant speed of 80km/h for 2 hours and then increased the speed to 90km/h. How far from town B was Oloo when Peter arrived at town B?

A. 160km
 B. 340km
 C. 180km
 D. 20km

26. Irimu deposited sh. 70000 in a bank that paid compound interest at a rate of 10% p.a. After 2 years, she withdrew all the money. How much money did she withdraw?

A. sh. 14000
 B. sh. 84700
 C. sh. 14700
 D. sh. 84000

27. In the figure below QRST is a quadrilateral. Line ST is parallel to QR. Angle QSR = 52°. Line ST = SQ = SR and UTQ is a straight line.



What is the size of angle UTS?

A. 122°
 B. 64°
 C. 120°
 D. 58°

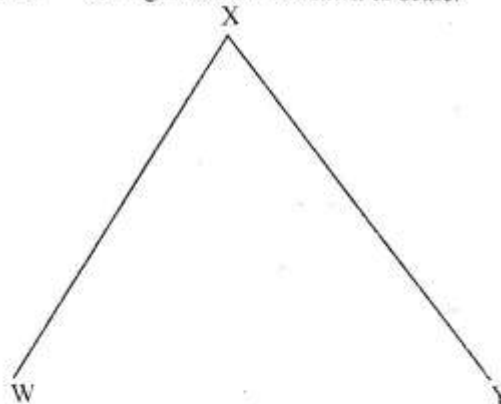
28. What is the value of:
 $\frac{1}{2}(6x - 4y) + \frac{1}{3}(9x)$?
 given that $x = 4$ and $y = 2$

A. 16
 B. 18
 C. 20
 D. 12

29. A farmer harvested 200 bags of maize. He sold 0.4 of the bags. He donated 0.2 of the remainder and kept the rest. How many bags did he keep?

A. 80
 B. 24
 C. 48
 D. 96

30. The figure below is drawn to scale.



Measure exterior angle WXY

A. 245°
 B. 110°
 C. 290°
 D. 70°

31. In a farm the ratio of goats to sheep is 3:5. There are 120 more sheep than goats. How many sheep are there?

A. 180
 B. 75
 C. 45
 D. 300

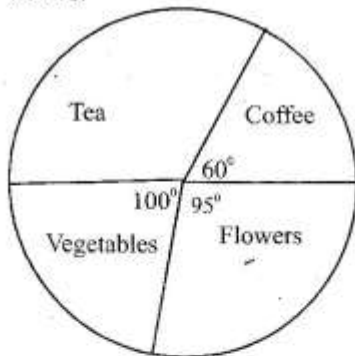
32. The table below shows fare in shillings for adults from Karur town to Maope town

Karur				
200	Paeku			
250	150	Namek		
300	200	200	Diosho	
350	250	300	180	Maope

Eighteen passengers boarded a matatu at Karur. Eight of these passengers alighted at Namek and other eight boarded at Namek for Maope. How much money did the driver collect?

- A. sh. 4400
 B. sh. 5500
 C. sh. 7900
 D. sh. 6300

33. The pie chart below represents export of different crops in tonnes in one year. The amount of coffee exported was 36 tonnes.



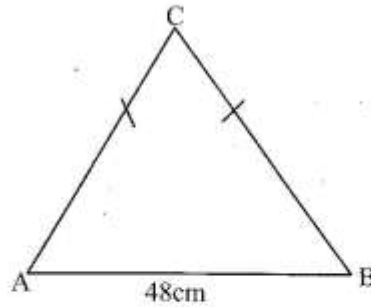
How many more tonnes of tea than flowers were exported?

- A. 10.5
 B. 9.5
 C. 20
 D. 1
34. What is the value of x in the equation

$$\frac{1}{4}(8x+12)+3=48?$$

- A. 42
 B. 21
 C. 54
 D. 27

35. The perimeter of the figure below is 98cm. $AB = 48\text{cm}$ and $AC = BC$



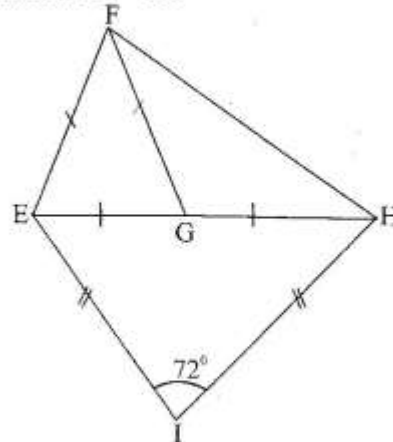
What is the area of the triangle?

- A. 168cm^2
 B. 600cm^2
 C. 84cm^2
 D. 42cm^2

36. Moibei paid sh. 5400 for a radio after getting a discount of 10%. How much was the marked price?

- A. sh. 5940
 B. sh. 600
 C. sh. 6600
 D. sh. 6000

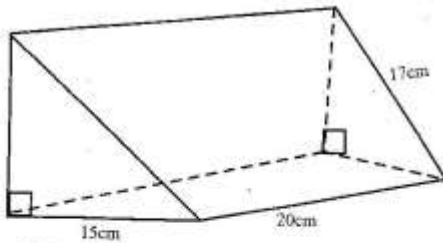
37. In the figure below, line $EF = GH = FG$. Angle $EIH = 72^\circ$. EGH is a straight line and line $EI = HI$.



What is the size of angle IEF?

- A. 54°
 B. 120°
 C. 114°
 D. 108°

38. The figure below is a solid in the shape of a triangular prism



What is its volume in cm^3 ?

- A. 920cm^3
 B. 1200cm^3
 C. 2550cm^3
 D. 600cm^3
39. Nekoye's home is x km from school. Fatuma's home is 2km further. Muli's home is 1km nearer the school than Nekoye's home. The three pupils covers a total distance of 7 km from their homes to school. Which one of the equations below correctly represents this information?
 A. $x + 3 = 7$
 B. $3x + 3 = 7$
 C. $x + 2 = 7$
 D. $3x + 1 = 7$
40. A watch loses 5 seconds every hour. It was set correct on Monday at 7.35 am. What time was it showing on Monday the following week at 7.35 am?
 A. 7.49 am
 B. 7.49 pm
 C. 7.21am
 D. 7.21pm

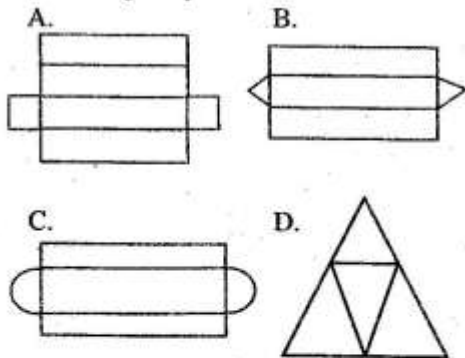
41. The table below shows prices of food in a certain hotel

	Fish	Chicken	Beef
Rice	sh. 200	sh. 180	sh. 150
Chapati	sh. 250	sh. 200	sh. 180
Ugali	sh. 180	sh. 160	sh. 140
Chips	sh. 300	sh. 270	sh.250

Twelve teachers ate lunch in the hotel. Five teachers took chips with chicken, three took chapati with fish and the rest rice with beef. How much did they pay altogether?

- A. sh. 2100
 B. sh. 3240
 C. sh. 2000
 D. sh. 2700
42. How many days are there between 20th June and 20th August?
 A. 61
 B. 60
 C. 59
 D. 62
43. Which one of the following expression is the simplest form of $\frac{2(5y+4)+2y+7}{3(4y+6)+6y-9}$?
- A. $\frac{12y+15}{18y+9}$ B. $\frac{2y+5}{6y}$
 C. $\frac{2y+5}{3y+3}$ D. $\frac{4y+5}{6y+3}$
44. In a census carried out in a certain town, the number of women was 6600 and that of men was 400 less than women. The number of children was twice that of adults. What was the total population?
 A. 12800
 B. 25600
 C. 38400
 D. 21000
45. The following are marks for pupils in a certain class.
 92, 94, 90, 89, 87 and 92.
 What is the median mark?
 A. 91
 B. 89
 C. 92
 D. 90

46. Which of the following figures below is a triangular prism?



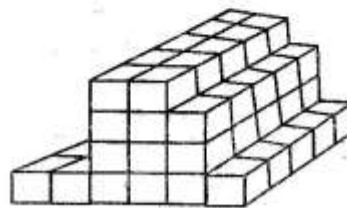
47. The marked price of a T.V set is sh. 40000. The hire purchase price of the same T.V is 30% more than the marked price. Maria bought it on hire purchase terms. She paid a deposit followed by 19 equal monthly instalments each sh. 2000. How much was deposit?

- A. sh. 52000
- B. sh. 38000
- C. sh. 42000
- D. sh. 14000

48. An empty lorry weighed 5.4tonnes. It weighed 8.6 tonnes after it was loaded with bags of maize each 80kg. How many bags were loaded?

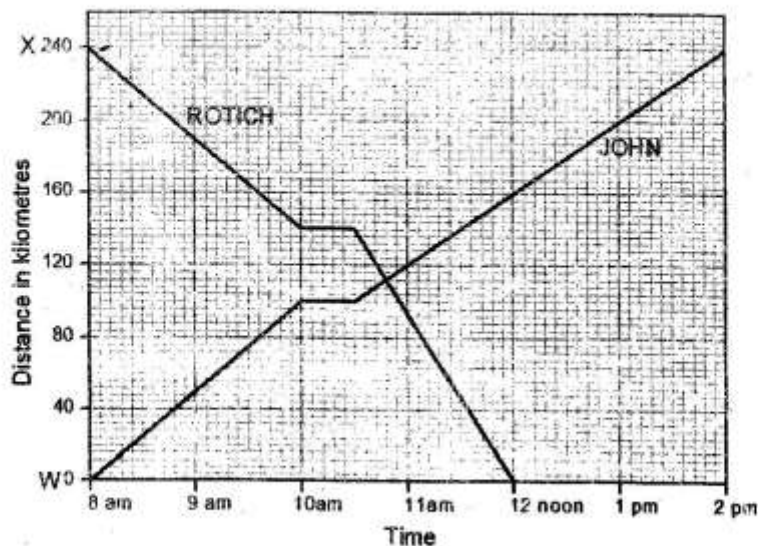
- A. 400
- B. 175
- C. 40
- D. 20

49. How many cubes are used to make the stack below?



- A. 120
- B. 54
- C. 50
- D. 70

50. The graph below shows the journey of two motorist John and Rotich



How far was John from town X when Rotich reached town W?

- A. 160km
- B. 80km
- C. 240km
- D. 140km