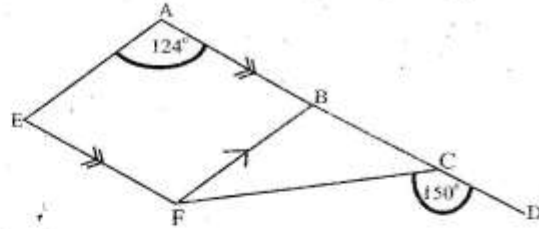


- What is 9503000.5 in words?
 - Nine million five hundred and three thousand and five
 - Nine million fifty thousand three hundred and five tenths
 - Nine million five hundred and three thousand and five tenths
 - Nine million five thousand and three and five tenths
- Which digit is in the place value of thousandths after dividing 13 by 7 and rounding off to 3 decimal places?
 - 8
 - 7
 - 5
 - 6
- Arrange the following numbers in order from the largest to the smallest.
2701.1, 2710.2, 2702.1, 2701.2
 - 2701.2, 2701.1, 2702.1, 2710.2
 - 2701.1, 2702.1, 2701.2, 2710.2
 - 2710.1, 2702.1, 2701.2, 2701.1
 - 2701.1, 2701.2, 2702.1, 2710.2
- What is the total value of digit 1 in the number 714387?
 - Ten thousand
 - Tens of thousands
 - 1000
 - 100000
- Work out: $13 \times 7 - 1224 \div 12 + 48 \div 3$
 - 95
 - 27
 - 5
 - 99

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- In the figure below ABCD is a straight line. AEFB is a parallelogram. Angle EAB = 124° and angle FCD = 150° .

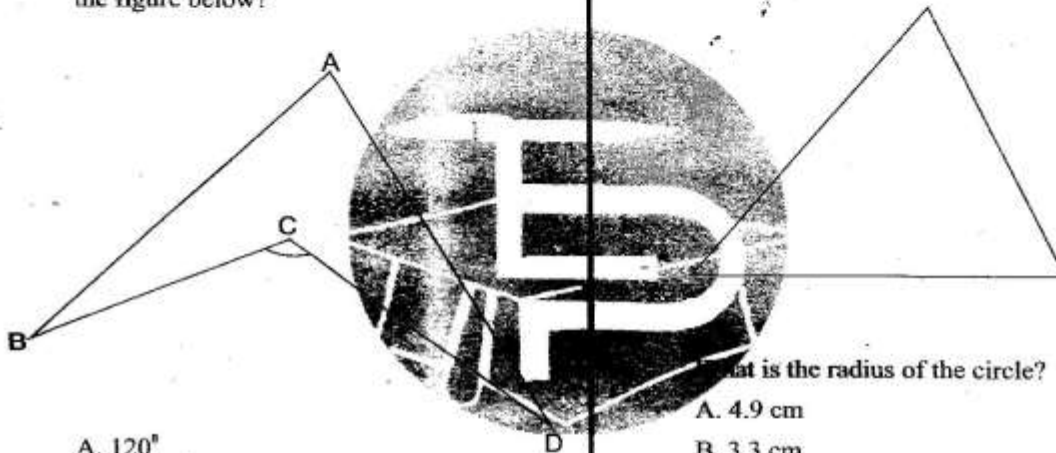


What is the size of angle EFC?

- 124°
 - 150°
 - 82°
 - 96°
- What is the next fraction in the sequence $1\frac{1}{2}, 2\frac{1}{4}, 3$ _____?
 - $3\frac{1}{4}$
 - $3\frac{1}{2}$
 - $3\frac{3}{4}$
 - 4
 - Work out: $\frac{5.4 \times 2.25 \times 4.8}{3.6 \times 12.5 \times 1.08}$
 - 0.12
 - 120
 - 12
 - 1.2
 - Ronald bought a suit for sh. 3750 after receiving a discount of 25%. How much would he have paid had he received a discount of 10%?
 - sh. 1500
 - sh. 4500
 - sh. 1250
 - sh. 5000

10. The number of teachers, boys and girls in a school were in the ratio 1:11:13 respectively. If there were 117 girls, how many more boys than teachers were there?
- A. 99
B. 91
C. 133
D. 90

11. What is the size of the reflex angle BCD in the figure below?



- A. 120°
B. 315°
C. 45°
D. 240°
12. A conductor increased the fare of passengers travelling from Nairobi to Matuu by 30%. The passengers now pay sh. 260. What was the fare before the increase?
- A. sh. 200
B. sh. 182
C. sh. 78
D. sh. 338

13. A tank was $\frac{7}{8}$ full of water. After 2400 litres was drawn it became half full. Calculate the capacity of the tank when full?
- A. 800L
B. 3200L
C. 6400L
D. 1600L

14. Draw a circle touching the vertices of the triangle drawn below.

What is the radius of the circle?

- A. 4.9 cm
B. 3.3 cm
C. 6.6 cm
D. 7.0cm
15. A lady had sh. 1000 to purchase the following items:
- 3 match boxes for sh.15
 - A 2kg packet of unga @sh.110
 - $\frac{1}{2}$ litres of milk @ sh. 60
 - $\frac{3}{4}$ cooking fat for sh.120
 - 2 - 1kg packets of rice at sh. 80 each.
 - A loaf of bread for sh. 60
- What was her balance?
- A. sh.555
B. sh. 335
C. sh. 445
D. sh. 305

16. One of the parallel sides of a trapezium measures 13cm. It is 5cm longer than the other parallel side. If its area is 63cm^2 . What is the perpendicular distance between the two parallel sides?

- A. 6cm
- B. 16cm
- C. 8cm
- D. 7cm

17. The average mass of seven bags of maize is 80kg. Six of them weighs 60kg, 100kg, 70kg, 79kg, 83kg and 90kg.

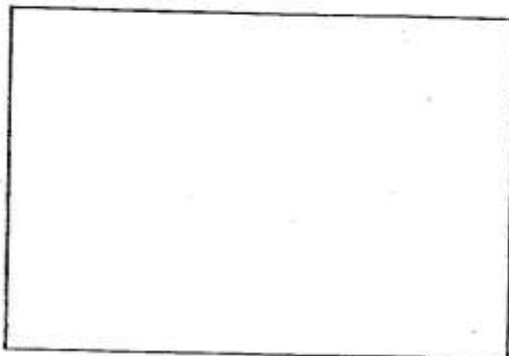
What is the median mass of the seven bags?

- A. 80kg
- B. 78kg
- C. 84kg
- D. 79kg

18. Judy borrowed sh. 50000 from a bank. After 3 years she had paid back all the money plus the interest amounting to sh. 60500. At what rate per cent per annum was the bank charging the simple interest?

- A. 5%
- B. 10%
- C. 7%
- D. 14%

19. The figure below is drawn using the scale 1:30000



What is the actual area in hectares?

- A. 43.2
- B. 432
- C. 4320
- D. 43200

20. The diagonal of a rectangle measures 34cm. Its length measures 30cm. What is the perimeter of the rectangle?

- A. 64cm
- B. 46cm
- C. 128cm
- D. 92cm

21. In one month a sales girl sold 100 items each costing sh. 2500. Her total earnings that month was sh. 20000. This included a commission calculated on sales of goods above sh. 100,000. If her basic salary was sh. 17,000. What was the percentage commission?

- A. 3000
- B. 20%
- C. 30%
- D. 2%

22. There are 250 pupils in a school. Each pupil was given a half litre packet of milk. How many decilitres did they receive altogether?

- A. 125 dl
- B. 1250dl
- C. 12.5 dl
- D. 5000dl

23. A pupil wanted to construct a right angled triangle with a hypotenuse of 25cm. Which one of the following pairs of measurements could he use as the base and the height?

- A. 3cm, 4cm
- B. 8cm, 15cm

24. What is the value of:

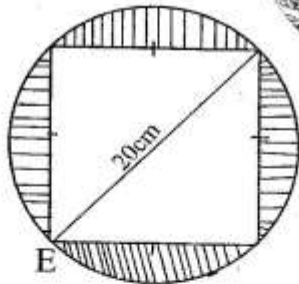
$$3\frac{1}{4} + 8\frac{2}{5} + 1\frac{1}{6} \times \left(8\frac{1}{9} - 5\frac{1}{3} \right) ?$$

- A. $23\frac{1}{4}$ B. 20
C. $20\frac{1}{4}$ D. $16\frac{3}{4}$

25. A trader sold a bag of potatoes for sh. 1980. He made a loss of 10%. At what price would he have sold to make a profit of 10%?

- A. sh. 2200
B. sh. 2420
C. sh. 2400
D. sh. 2220

26. What is the area of the shaded part in the figure below? Use ($\pi = 3.14$.)



- A. 314cm^2
B. 57cm^2
C. 86cm^2
D. 114cm^2

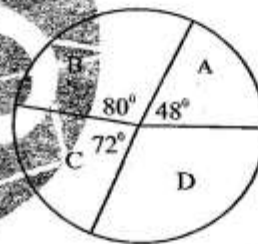
27. A cylindrical tank has a height of 1.4m. Its diameter measures 4m. How much water can it hold when full of water? Use ($\pi = 3\frac{1}{2}$)

- A. 400L
B. 500L
C. 600L
D. 17600L

28. Stephen bought an item on hire purchase terms. He paid a deposit of sh. 24000 and 9 equal monthly instalments of sh. 4000 per month. The amount paid was 20% more than the marked price. Jaguar bought the item on cash and received a discount of sh. 1500. How much did he pay for the item?

- A. sh. 60000
B. sh. 48500
C. sh. 50000
D. sh. 58500

29. The pie chart below shows the number of voters who chose four candidates during a general election.



If candidate A received 1800 votes, how many votes did the winning candidate receive?

- A. 6000
B. 9000
C. 3000
D. 3600

30. For a job to be completed in 24 days, 15 workers are required. How many more workers would be required for the job to be completed in 20 days?

- A. 18
B. 3
C. 6
D. 5

31. An open cuboid measures 16cm on its length. Its width measures 12cm while its height measures 10cm. What is the surface area of the cuboid?

A. 944cm^2
 B. 704cm^2
 C. 752cm^2
 D. 624cm^2

32. Cylindrical tins have a radius of 8cm. They were packed in upright position in a carton measuring 80cm by 48cm and 1.2m high. How many tins could completely fill the carton if the tins are 20cm in height?

A. 90
 B. 540
 C. 60
 D. 120

33. Solve the value of t in the equation.

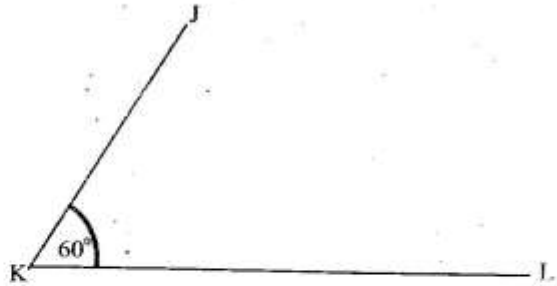
$$\frac{2t-3}{3} + \frac{t-2}{2} = 7$$

A. $6\frac{6}{7}$ B. $7\frac{5}{7}$
 C. $6\frac{5}{7}$ D. 6

34. The members of a certain welfare group decided to deposit sh. 80000 in a fixed deposit account. The bank gave them compound interest at the rate of 5% p.a. They withdrew all the money in the account by the end of 2 years. How much interest had they earned?

A. sh. 11025
 B. sh. 8000
 C. sh. 88200
 D. sh. 8200

35. On the diagram below complete it to form a parallelogram JKLM



What is the size of the diagonal KM?

A. 5.6 cm
 B. 10.0cm
 C. 11.2cm
 D. 9.5cm

36. Given that $t = 5$, $p = 7$ and $m = 12$. What is the value of

$$(tm - p^2) + \frac{2t^2 - m}{p + m}?$$

A. 13
 B. 11
 C. 9
 D. 7

37. A plane from America arrived at Nairobi on Friday at 0215 hrs. How long did the journey take if it had left America at 10.30a.m on Thursday?

A. 3 hours 15 mins
 B. 3 hours 45 mins
 C. 13 hours 15 mins
 D. 15 hours 45 mins

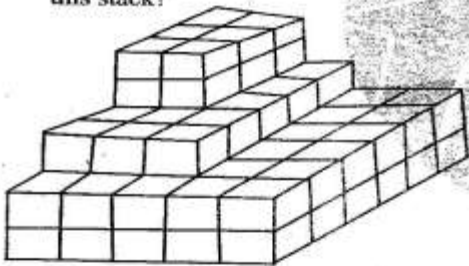
38. By how many times is the LCM of 90, 108 and 120 greater than its GCD.

A. 1080
 B. 1086
 C. 180
 D. 1074

39. Simplify the following inequality

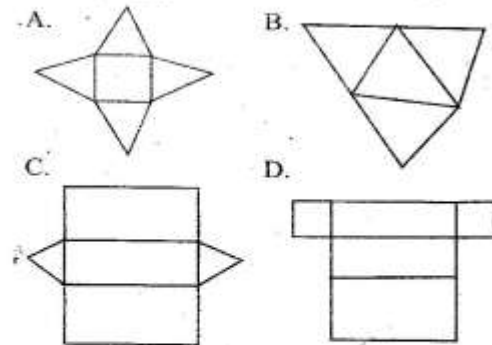
$$\frac{p+4}{3} > \frac{4p-8}{3}$$

- A. $p < 4$ B. $p < 1\frac{1}{3}$
 C. $p > 4$ D. $p > 1\frac{1}{3}$
40. The area of a square game park is 20.25 hectares. It was fenced round using two strands of electric wire. What was the length of the wire used?
- A. 900m
 B. 360km
 C. 1.8km
 D. 3.6 km
41. How many cubes have been used to make this stack?



- A. 60
 B. 75
 C. 81
 D. 87
42. Charles left his home for town at 8.00 a.m. The distance from his home to town is 150km. He arrived in town at 11.00 a.m. On his way back home he increased his speed by 25km/h. If he stayed in town for $1\frac{1}{2}$ hours at what time did he arrive back home?
- A. 4.30p.m
 B. 1.00 p.m
 C. 2.30 p.m
 D. 2.00 p.m

43. Which one of the following nets will form a solid with 5 faces, 8 edges and 5 vertices when folded?



44. The floor of a square room was completely covered using 256 square tiles. The area of each tile is 625cm^2 . Calculate the perimeter of the room.
- A. 400 cm
 B. 16m
 C. 4m
 D. 1600m
45. The table below shows fare of a bus travelling from town A to town F

A					
80	B				
130	80	C			
180	120	80	D		
250	200	150	60	E	
320	270	200	150	70	F

- Two passengers left town A for town F. They first alighted at town D before proceeding to town F. On their way back they took an express bus from town F to A. How much did they pay for their fare?
- A. sh. 660
 B. sh. 1300
 C. sh. 640
 D. sh. 1280

46. A shopkeeper packed rice into equal number of 1kg and 2kg packets. How many such packets will weigh 0.6 tonnes?

- A. 200
- B. 300
- C. 400
- D. 200000

47. A farmer harvested 24 bags of maize. This was a third of the bags of wheat and three quarter the number of beans harvested. How many bags of maize, wheat and beans did he harvest altogether?

- A. 96
- B. 192
- C. 128
- D. 48

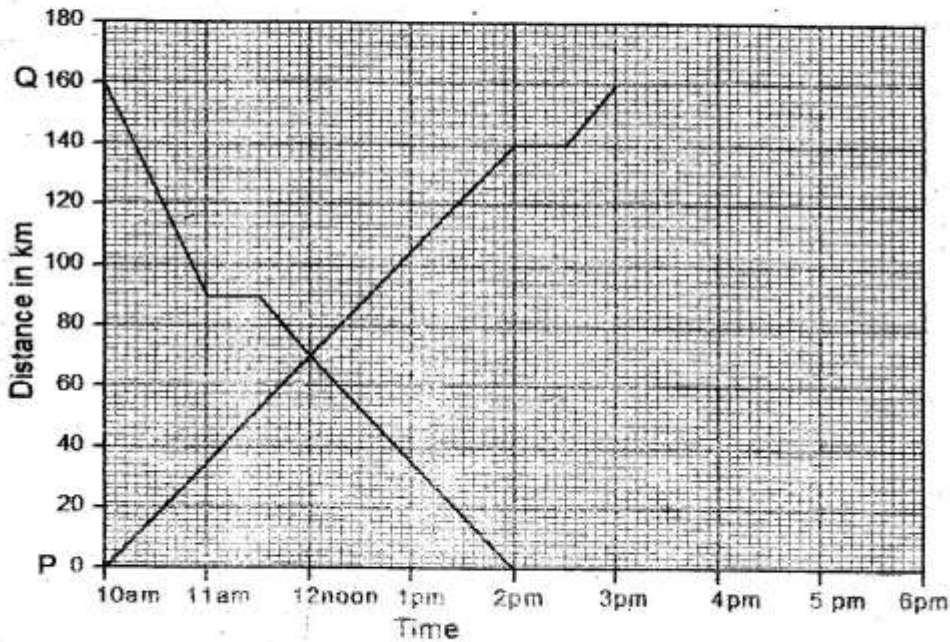
48. Kipchoge has $2p + 2$ cows, Ole tipis has $2p - 8$ cows. Kipsang owns half as many cows as what both Kipchoge and Ole tipis have. Which one of the following expression shows the total number of cows the three farmers have?

- A. $6p + 9$
- B. $6p - 15$
- C. $6p + 15$
- D. $6p - 9$

49. In a certain leap year 20th January was on a Monday. On which day of the week was 1st April of the same year?

- A. Thursday
- B. Wednesday
- C. Tuesday
- D. Monday

50. The table below shows two motorists travelling along the same route.



What was the difference in their speed by the time the two met?

- A. 5km/h
- B. 10km/h
- C. 20km/h
- D. 40 km/h