READ THESE INSTRUCTIONS CAREFULLY

You have beer given this question booklet and a separate answer sheet. The question booklet contains 50 questions.

What is the plant value of the dress 6 in the moul-

- Do any peessary rough work in this booklet.
- 3. When you have chosen your answer, mark it on the ANSWER SHEET, not in this question booklet.

HOW TO USE THE ANSWER SHEET

- Use only an ordinary pencil.
- Make sure that you have written on the answer sheet:

YOUR INDEX NUMBER YOUR NAME NAME OF YOUR SCHOOL

- By drawing a dark line inside the correct numbered boxes mark your full Index Number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
- Do not make any marks outside the boxes,
- Keep the sheet as clean as possible and do not fold it.
- For each of the questions 1-50 four answers are given. The answers are lettered A, B, C and D. In each case only ONE of the four answers is correct. Choose the correct answer. Man april all larges 00 adjanot recreating the A. F.
- On the answer sheet the correct answer is to be shown by drawing a dark line inside the box in which the letter you have chosen is written.

Example

In the Question Booklet:

- **14.** What is $1\frac{1}{2}\%$ expressed as a ratio in its simplest form?
- the semantification of the pupils in Stehnshire 16, 18,
- malograd B. 182:300% | home @ | E | .61 .61 .V | .11 .V
 - C. 3:200
 - D. 200:3

The correct answer is C (3:200).

On the answer sheet:



In the second set, the box with the letter C printed in it is marked

- 11. Your dark line MUST be within the box.
- 12. For each question ONLY ONE box is to be marked in each set of four boxes.

This Question Paper consists of 15 printed pages and 1 blank page.

- 1. Which one of the following is 50205083 in words?
 - A. Fifty million two hundred and offty thousand and eighty two.
 - B. Fifty million twenty five thousand and eighty
- C. Fifty million two of unored thousand five
 - D. Fifty million two hundred and five thousand and eighty two
 - 2. What is the place value of the digit 6 in the number 26490532
 - A. Hundred thousands
 - B. Willems
 - C Six hundred thousand
 - OD Ten thousands
 - What is the number 29-34046 rounded off to the nearest thousandth?
 - A. 29-3
 - B. 29-34
 - C. 29,340
 - D. 29-341
 - 4. What is the smallest number that can be divided by 12, 18 and 27 without a remainder?
 - A. 108
 - B. 36

3

- C.
- D. 5832
- 5. A shopkeeper bought 30 eggs. He then sold each egg at sh 6, making a profit of 20%. How much had he paid for the eggs?

The present on lottored * Restaud Dente stowers of T.

- A. sh 144
- B. sh 150
- C. sh 180
- D. sh 216
- 6. What is the value of $8 \div 0.02 \div 1.35 \times 0.47$
 - A. 400-54
 - B. 40-54
 - C. 160-54
 - D. 405-4
- 7. The marked price of a blouse was sh 750. Halima bought five such blouses after being given a 10% discount. How much did she pay for the five blouses?

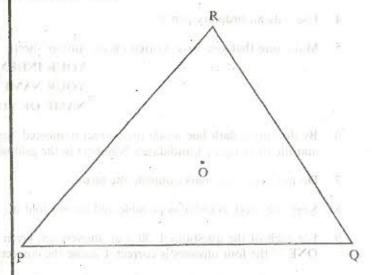
egony Amild I have area

- A. sh 3 675
- B. sh 675
- C. sh 3 375
- D. sh 3 700

- 8. Katua bought the following items from a kiosk:
 - 2 kg of rice for sh 152
 - 12 kg of meat @ sh 160
 - 2 loaves of bread @ sh 23

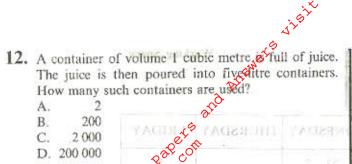
What balance did he receive if he paid for the items using a sh 1000 note?

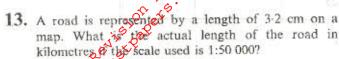
- A. sh 438
- B. sh 562 houseon and user more over use?
- C. sh 410
- D. sh 665 II HE STOW HEADER YHARSOON YER WE
- In the figure below, RPQ is a triangle. Point O is inside the triangle. Join RO, PO and QO.



What is the size of the obtuse angle POQ?

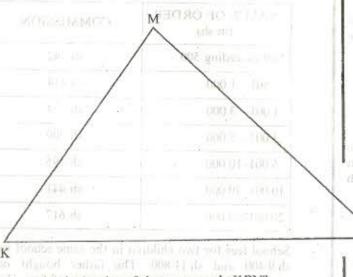
- A. 54°
- B. 114°
- C. 120°
- D. 126°
- 10. The ages, in years, of 10 pupils in a class are: 16, 18, 15, 14, 17, 16, 14, 13, 19 and 14. What is the median age of the pupils?
 - A. 16-5
 - B. 15.6
 - C. 14
 - D. 15.5
- 11. Which one of the following statements is true about all quadrilaterals?
 - A. Opposite sides are equal.
 - B. Diagonals bisect at right angles.
 - C. Sum of interior angles is 360°.
 - D. Angles are right angles.





- A. 0016.0
- B. C. 60
- (B) (B)

A rin the triangle KLM drawn below, construct the perpendicular bisector of line KM to cut line KM at N and line KL at P.

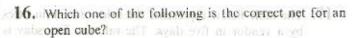


What is the size of the acute angle KPN?

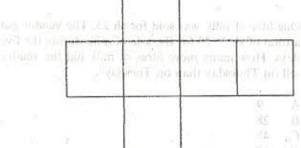
- ave at A.00145° and susqueed at bloom your during
 - B. 90° best and makes some many
 - C. 55°
 - D. 35°

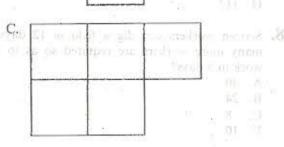
15. What is the value of x in 3(2x + 1) + 5(x + 4) = 61?

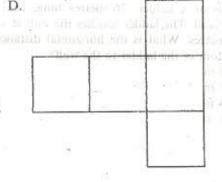
- 21. What is the next number of the party $\frac{5}{11}(3 + A)$
- B. $5\frac{1}{11}$
- C. , 7⁷11
- D. 811











- 17. The table below represents the sales of milk in litres by a vendor in five days. The sale or Thursday is not shown.

Working Space	

	D).				
DAYS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
NUMBER OF LITRES	25 co. 25	19	23		22

One litre of milk was sold for sh 25. The vendor got a total of sh 2925 for the sale of milk during the five days. Downtany more litres of milk did the vendor sell on Thursday than on Tuesday?

A. 5, 9 28

C. 47
D. 117

18. Sixteen workers can dig a field in 12 days. How many more workers are required so as to do the work in 8 days?

A. 40

B. 24

C. 8

D. 10

19. The top of a ladder, 26 metres long, leans on a vertical wall. The ladder touches the wall at a height of 10 metres. What is the horizontal distance from the bottom of the ladder to the wall?

A. 16 m

B. 18 m

C. 24 m

D. 576 m

The table below shows the postal rates for sending a money order.

VALUE OF ORDER (in sh)	COMMISSION		
Not exceeding 500	sh 42		
501 1 000	sh 114		
1 001- 3 000	sh 174		
3 001- 5 000	sh 209		
5 001–10 000	sh 295		
10 001-20 000	sh 441		
20 001-30 000	sh 617		

School fees for two children in the same school was sh 9 400 and sh 11 800. The father bought one money order to pay the total amount of fees. How much more would he have spent had he bought two separate money orders for the fees?

A. sh 119

B. sh 146

C. sh 736

D. sh 617 | EDE III To be a low set of Lattwo . ET

21. What is the next number in the pattern 1, 3, 7, 15, ...?

A. 22

B. 23

C. 25

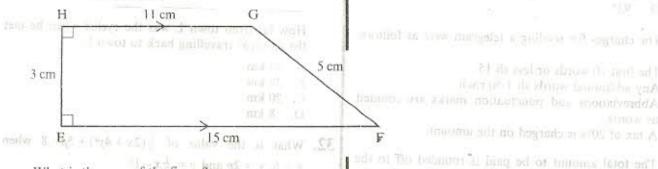
D. 31

22. The table below shows Sagana-Nanyuki Train fares for adults.

STATION	NANYUKI	NARO MORU	KIGANJO	KARATINA	SAGANA
NANYUKI		o 20	35	55	70
NARO MORU	20 00	jti –	20	35	50
KIGANJO		20	=	20	35
KARATINA	35 70	35	20	2 = 15.0 i Gi2	20
SAGANA S	a\$ 70	50	35	20	PTO steed

The fart for children is half that of adults. Taipei and less two children travelled from Nanyuki to Sagana. On their return journey they first paid the tare to Karatina. They later paid the fare to Nanyuki. How much more money did they spend on travel for their return journey?

- A. sh 150
- B. sh 140
- C. sh 15
- D. sh 10
- 23. The figure below is a trapezium. Lines HG = 11 cm, GF = 5 cm. EF = 15 cm and HE = 3 cm. Line EF is parallel to HG and angle FEH = angle EHG = 90°.



What is the area of the figure?

- A. 78 cm²
- B. 39 cm²
- C. 65 cm²
- D. 75 cm2
- 24. A rectangular container 45 cm long and 25 cm wide was full of water. After removing 22.5 litres of the water, the level of water became 4 cm high. What was the height of the container?

two mer pack in five days?

- A. 24 cm
- B. 20 cm
- C. 16 cm
- D. 6 cm
- 25. Nekesa has p pencils. Rhoda has 3 more pencils than Nekesa. Karani has two pencils less than the total number that Nekesa and Rhoda have. How, many pencils do they have altogether?
 - A. 8p-2
 - B. 4p + 4
 - C. 2p + 1
 - D. 2p + 4

26. Cherono spent sh 8 100 on food in May. In the month of June she spent 10% less on food than in May. How much money did she spend on food in June?

A 80.25

B sh 24

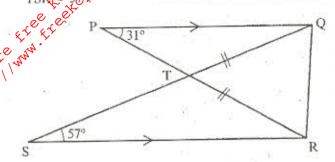
- A. sh 810
- B. sh 7 290
- C. sh 9 000
- D. sh 8 910
- 27. Amina shared money among her three children. The first got \(\frac{1}{3}\) while the second got \(\frac{1}{4}\) of the money. The third got \(\frac{1}{2}\) of what remained. Amina was left with sh I 500. How much money had she before it was shared?
 - A. sh 3 000
 - B. sh 5 700
 - C. sh 7 200
 - D. sh 3 600

28. A motorist travelling at an average spect of 84 km/h took 2 hours and 30 minutes to travel from town M to town N. She then took 3 hours and 20 minutes to travel back to town M. What was the average speed

for the whole journey?
A. 36 km/h
B. 63 km/h

C. $73\frac{1}{2}$ km/h D. 72 km/h

29. In the figure below, line PQ is parallel to line SR and QT is equal to TR. Angle QPT = 31° and angle



What is the size of angle PQR?

A. 46°

B. 88°

C. 103°

D. 92°

30. The charges for sending a telegram were as follows:

The first 10 words or less sh 15.

Any additional words sh 1.50 each.

Abbreviations and punctuation marks are counted as words.

A tax of 20% is charged on the amount.

ment and to a long proper sale of the state of

The total amount to be paid is rounded off to the nearest 50 cents. What was the cost of sending the following telegram?

JOHN MLAMA P.O. BOX 360 NYERI GOING TO KISUMU AFTER THE EXAMINATION KOIGI

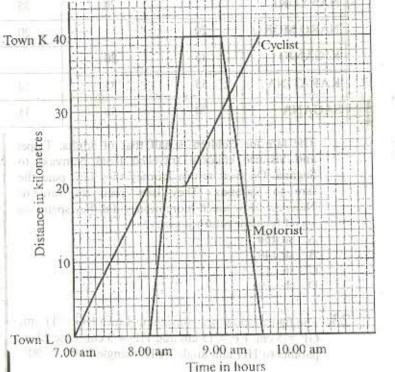
A. sh 25

B. sh 24

C. sh 28-80

D. sh 29-00

31. Below is a travel graph showing the journey of a motorist travelling from town L to town K and back, and that of a cyclist travelling from town L to town K. OMORAM LAURINAM MOUTATE



How far from town L was the cyclist when he met the motorist travelling back to town L?

A. 40 km

B. 32 km

C. 20 km

D. 8 km

32. What is the value of $\frac{1}{3}(2x+4y^2)+5p-8$ when p=6, x=2p and $y=\frac{1}{2}x-1$?

A. 130

B. $63\frac{1}{3}$

C. $43\frac{1}{3}$

- D. 36²₃
- 33. A machine packs 250 two-kilogram packets of sugar while another packs 375 one-kilogram packets each day. How many tonnes of sugar altogether, do the two machines pack in five days?

total and I will be a second Rhoots and Italian

A. 0-875

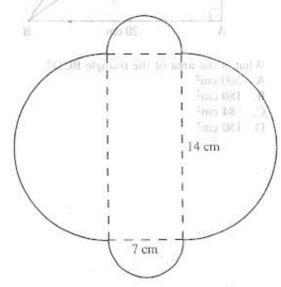
B. 3-125

C. 4-375

D. 6.25

- 34. A square of side 2 cm is cut from sich corner of a rectangular paper measuring 8 cm by 12 cm. Which one of the following statements is true?
 - A. The perimeter of the remaining paper is greater than the perimeter of the rectangular paper by
 - B. The perimeter of the remaining paper is less than the perimeteo of the rectangular paper by 16 cm.
 - C. The perimeter of the rectangular paper is reduced by cm.
 - D. The permeter of the remaining paper is equal to perimeter of the rectangular paper.
- 35. & seesman is paid a salary of sh 1 500 per month plus a commission of $2\frac{1}{2}\%$ on the sale of goods what above sh 10 000. In one month he was paid a total of sh 1 800. How much was the sale of the goods?
 - A. sh
 - B. sh 12 000m Worl along 00F strew available
 - C. sh 22 000
 - D. sh 82 000
- 36. In a group of 126 spectators the ratio of men to women was 3:4. What is the new ratio if 2 more men and 8 more women joined the group of spectators?
- AS. Complete the construction of 11:7-may design
 - PORE where time PR is a diagonal \$1:5
 - C. 13:16
 - D. 1:4
 - 37. A clock was set on Monday at 8.30 a.m. On Tuesday, the following day, the clock showed 8.45 p.m. when the correct time was 8.30 p.m. How many minutes was the clock gaining in every 24 hours?
 - A. 10 minutes
 - 7½ minutes
 - C. 15 minutes
 - D. 30 minutes
 - 38. The base of a closed cuboid measures 4 cm by 5 cm and the height is 7 cm. The base and the top parts of the cuboid are painted. What is the total surface area of the parts which are not painted?
 - A. 166 cm²
- B. 126 cm² shorton to rate to rate and all shortwards of the contract of the
- Dealles Dart 40 cm2 part arts mon 1 box . 1 . 1
 - During an election the winning candidate got 0 425 of the votes cast while the other two candidates got 0-39 and 0-183 respectively. There were 48 spoilt votes. How many votes did the winning candidate get?
 - A. 24 000
 - B. 10 200
 - 9 3 6 0 C.
 - D. 4392

- 40. A motorist started on a journey of 250 km, at 6,30 a.m., travelling at an average speed of 100 km/h. After travelling for 150 km, the car got a puncture and it took him 30 minutes to change the wheel. He then continued with the rest of the journey at an average speed of 80 km/h. At what time did he reach his destination?
 - A. 9.15 a.m.
 - B. 9.45 a.m.
 - C. 9.30 a.m.
 - D. 9.55 a.m.
- 41. Four children bought 53 oranges altogether. Nekoye bought x oranges and Kamau bought 9 oranges more than Nekoye. Fatuma bought twice as many oranges as Nekove. Atieno bought as many oranges as both Kamau and Fatuma bought. Which one of the following equations can be used to find the number of oranges Nekove bought?
 - A. 5x + 22 = 53
 - B. 5x + 18 = 53
 - C. 7x + 9 = 53
 - D. 7x + 18 = 53
- 42. Waither borrowed sh 10 000 for a period of two years. She was charged compound interest at the rate of 15% per year. How much interest did she pay altogether?
 - A. sh 1 500
 - B. sh 3 000
 - C. sh 3 225
 - D. sh 1 725
- 43. The figure below represents a table mat made up of a rectangle and four semi-circles. The rectangle measures 14 cm by 7 cm.

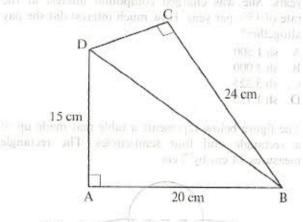


What is the area of the table mat? (Take $\pi = \frac{22}{7}$)

- A. 192½ cm²
- B. 868 cm2
- C. 290 5
- D. 194 \(\frac{1}{2}\) cm²

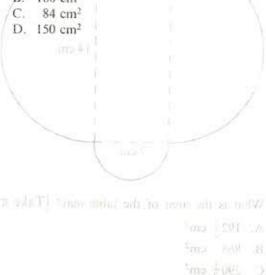
- The cash price of a tractor is 1.8 collion shillings. Rotich bought it on hire purchase terms. The total amount he paid was 30% more than the cash price. He paid a deposit of sh 660 000 and the remainder in 24 equal monthly instalments. How much was Sab cou each instalment?
 - A. sh 70 000
 - B. sh 97 500
- D. sh 25 000 (x) 45. Omaka and Mwite had packets of tea to be packed into castons. Each carton holds 46 packets. Omala packed 63 cartons and remained with 24 packets while Mwite packed 54 cartons and remained with packets. How many more packets of tea had Omala than Mwite?
 - А. 419 причим окожам устроно то полици
 - 414
 - 409
 - 5 425 D.
- 46. The figure shown below, is formed by two rightangled triangles ABD and BCD.

12 - 81 - 7 - B 12 - 0 - 7 - 7

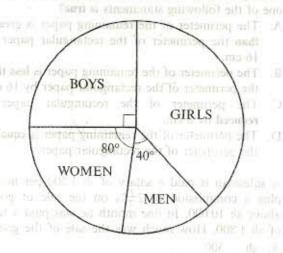


What is the area of the triangle BCD?

- A. 300 cm²
- B. 180 cm2

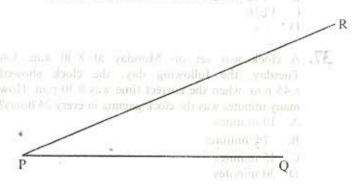


47. The population of a village is represented by the pie chart below to 8 gonnaum regard reluvantous



If there were 300 girls, how many more boys than men were there?

- A. 80
- B. 100
- Co 180: but stormong of the group a of all
 - POD. 50 men with add at the W. 400 again namow
- 48. Complete the construction of a parallelogram PQRS, where line PR is a diagonal.



What is the length of line QS?

- A. 6.7.cm a send of 1 ms (a) illured wit bous
- B. 7-0 cm, tanW bounty and buedup on
- С. 3-8 ст да эты полож эты полож эты ната
- D. 9-1 cm
- 49. Which is the correct order of writing the fractions $\frac{3}{4}$, $\frac{7}{9}$, $\frac{4}{5}$, and $\frac{9}{11}$ from the largest to the smallest?
 - 39, $\frac{3}{4}$, $\frac{4}{5}$, $\frac{7}{9}$, $\frac{9}{11}$ make the property of $\frac{3}{4}$, $\frac{4}{5}$, $\frac{7}{9}$, $\frac{9}{11}$
 - B. (1), 7, 4, 3, 10 all slide laps entry at 10.
- C. $\frac{9}{11}$, $\frac{7}{9}$, $\frac{3}{4}$, $\frac{4}{5}$ bit when remain work soler
 - D. $\frac{9}{11}, \frac{4}{5}, \frac{7}{9}, \frac{3}{4}$

