- 1. Which one of the following is 3200104 in words?
  - A. Thirty two thousand one hundred and four.
  - B. Three million two thousand one hundred and
  - C. Three hundred and twenty thousand one hundred and four.
- D. Three million two handred thousand one hundred and four.
- 2. Which one of the following numbers has the smallest value?
  - A. 111010.
  - B. 101001
  - C. LIOTO Househip aidt ni 100 THANK HAWS
  - D. CIOLOII
- A rectangular water tank is 6 metres long, 4 metres wide and 3 metres high. How many litres of water does the tank hold when full?
  - 721 A.
  - B. 7 200 1
  - C. 72 000 1
  - 72 000 000 1
- 4. What is the number 29 853 when rounded to the nearest thousand?
  - A. 29 000
  - B. 29 850
  - C. 29 900
  - D. 30 000
- 5. What is the place value of digit 5 in the number 1050067?
- trawing a dark line maide the box in sansandler. A con-
  - B. Ten thousands
  - C. Fifty thousands
  - D. Hundred thousands
- **6.** What is the value of  $\frac{24(72-69)+6\times4}{12}$ ?
  - A. 8
  - B. 26
  - C. 30
  - D. 74
- 7. What is the value of  $\frac{8^2(9^2-3^2)}{4^2-3^2}$ 
  - A. 4
  - B. 8
  - C. 2
  - D. 2
- 8. What is 23-1408 correct to three decimal places?
  - A. 23-0
  - B. 23-1
  - C. 23-140
  - D. 23-141

9. The marked price of a pair of shoes was sh. 250. During a sale the price was reduced to sh. 200. What was the percentage decrease in price?

v 12 20 7

- 80%
- 50% B.
- C. 25%
- D. 20%
- 10. What is the L.C.M. of 15, 20 and 30?
- os A Are 120 ood norteaup aufa mavig trand 5744 so

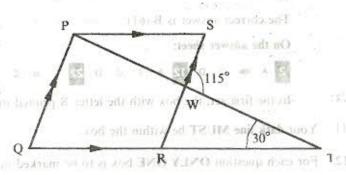
  - Coals 15 and m show again visses of the off
- D. - 5 When you have chosen your answer, mink it on the
- 11. The table below shows the maximum and minimum temperatures, in degrees celsius, recorded in different cities on one day. Viso leaned winning in the U

City	Maximum °C	Minimum °C	
Dar-es-Salaam	33		
Khartoum	31	16	
Accra	32 t stak	1 am v 24 viii	
Entebbe	stabilitati (30) mini	-s57(1) 9 <b>18</b> hnn	

In which city was the mean temperature highest that day? A. Dar-es-Salaam.

- B. Khartoum.
- Entebbe. The four answers as correct of the
- 12. What is the ratio 3:5 expressed as a decimal?
  - A. 1.6
  - B. 0.625
  - C. 0.6
  - D. 0.375
- 13. In the figure below PQRS is a parallelogram. Lines ORT and PWT are straight. Angle OTP = 30° and angle SWT = 115°.

in the Question Booklet:



What is the size of angle PQR?

- A. 65°
- 85° B.
- 950
- This Ourstian Page 1 done December and I black pages.

R SCHOOL

			175
14.	In the year 2000, February 19	th was a	Saturday.
0.504	What day was March 6th the sar	me vear?	

ero

instalment?

A str 1404 B sh: 1170

C. sh. 936

D sh 546

82

124

D 152

B

31. The figure below represents a d

The design consists of a square of a

Sunday and so had a little of an udl

He

B. Monday
C. Tuesday

D. Wednesday

15. What is the value of  $0.3 \times 0.94 + (0.304 + 0.123 + 0.4)$ ?

C. 0-8935 e 1 2 2 D. 0-665

16. Boxes measuring 10 cm by 6 cm by 4 cm were to be packed in a carton measuring 1.5 m by 1 m by 04 m. How many boxes were needed to fill the carton?

A. 25 000

2 500

C. 250

D. 25

17. A cylinder which is open at one end has a radius of 6.3 cm and a height of 25 cm. What is the surface area of the cylinder in square centimetres?

Take  $\pi = \frac{22}{3}$ 

A. 1114-74

B. 1239-48

C. 3118-50

What is the total length, in cm, of th7:613,1 nddoc

18. A cuboid measures 6 cm long, 5 cm wide and 4 cm high. What is the total length of the edges in centimetres?

26 CE

A. 30

B. 60

C. 90

D. 120

19. The price of a radio was reduced by sh. 630. This represented a 30% discount. What was the price of the radio after the discount?

A. sh. 441

B. sh. 1470

C. sh. 2100

D. sh. 2730

20. What is the next number in the sequence 7, 16, 32,

57, A. 93

B. 89

C. 82

D. 63

21. What is the value of x in the equation

the kiesk in the market. Each  $Mk_0^2 = \frac{(6 - 2)^2}{3}$  including nems:

I bag of omone weighing 141 7 kg A. 72 Mes of fresh peas each weighing 51 3 kg. 7

bags, of green maize each weighing 114-6 Kg. &

What was the total weight, in kilourams, 2: all the items transported?

P. HILLS 76-2 22. Fifteer, people working at the same rate would complete some work in 10 days. How many days would 6 people need to complete the same work?

26. Wangut bought the following articles from a

C. 25

D. 150

23. in 1998, Wanja harvested 4 676 bags of maize. This was 168 bags more than those she harvested in 1997 How many bags of maize did she harvest in 1997?

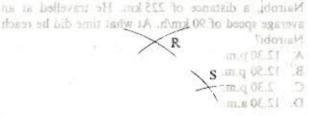
A 177

B. 513

C. 4508

D. 5021

24. The figure below shows a construction of angle A motorist left home at 10.00 a.m. \$250 and A



1 kg cooking ist (ii) in 100

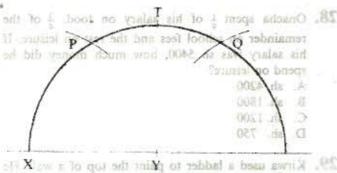
2 loaves of bread (a) sh 20;

she gave a sh. 500 note?

sh, 395

sh. 225

201 Re-



Which group of points shows the order construction ender toucher and liew and more

beight of 6 metres. What was the festing oathe B. Q, P, R, S, T

C. Q. P. R. 1, 8

D. Q, P, T, R, S

m ± 01

m čl

arider?

56 + m

- 25. Kiprono hired two Mikokoteni to transport items to his kiosk in the market. Each Mkokoteni carried the following items:
  - 1 bag of onions weighing 141.7 kg;
  - 2 bags of fresh peas each weighing 51-3 kg;
  - 3 bags of green maize each weighing 114-6 kg.

What was the total weight; in kilograms, of all the items transported?

22 Fitteet people working at 1

- A. 1176-2
- 615-2
- 307.65 Part of the surface state of the surface state of the surface state of the surface of the C.
- would a people need to ampiete the
- 26. Wangus bought the following articles from a shop:
  - 2 kg cooking fat @ sh. 100;
  - 2 loaves of bread @ sh. 20;
  - 2 kg packet of unga for sh. 55;
  - kg tea leaves for sh. 100. was 168 ones more than those she hurvested

What balance did she receive from the shopkeeper if she gave a sh. 500 note?

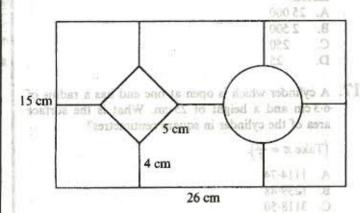
- A. sh. 395
- B. sh. 100
- C. sh. 225
- D. sh. 105
- 14. The least below shows a construction of 27. A motorist left home at 10.00 a.m. and travelled to Nairobi, a distance of 225 km. He travelled at an average speed of 90 km/h. At what time did he reach Nairobi?
  - A. 12.30 p.m.
  - B. 12.50 p.m.
  - C. 2.30 p.m.
  - D. 12.30 a.m.
- **28.** Onacha spent  $\frac{1}{9}$  of his salary on food,  $\frac{3}{4}$  of the remainder on school fees and the rest on leisure. If his salary was sh. 5400, how much money did he spend on leisure?
  - A. sh. 4200
  - B. sh. 1800
  - C. sh. 1200
  - D. sh. 750
- 29. Kirwa used a ladder to paint the top of a wall. He placed the bottom of the ladder 4 1 metres away from the wall. The ladder touched the wall at a height of 6 metres. What was the length of the ladder? B. O.F.R.S.T
  - A. 7½ m
  - B. 10 ½ m
  - C. 15 m
  - D. 56 1 m

30. The cash price of a bed is sh. 11 700. The hire purchase price is 20% more than the cash price. Mbugua bought a bed on hire purchase terms. He paid a deposit of sh. 2808 and 12 equal monthly instalments. How much was each monthly instalment?

15. What is the value of

03 × 094 + (0304 + 0123 - 04)7

- A. sh. 1404
- B. sh. 1170
- C. sh. 936
- D. sh. 546
- 31. The figure below represents a design of a window. The design consists of a square of sides 5 cm, a circle of diameter 7 cm and a rectangular frame measuring 26 cm by 15 cm. The square and the circle are joined to each other and to the frame by lines each 4 cm long. Cantus



What is the total length, in cm, of the metal needed to make the design? A cuboid measures 6 um 10mg,

(Take 
$$\pi = \frac{22}{7}$$
) discret lates and at larger figure

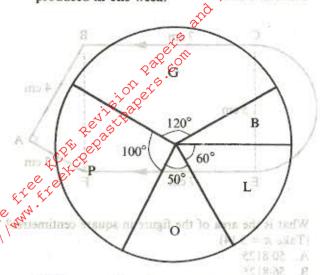
- A.
- 82 B.
- C. 124
- D. 152

13%

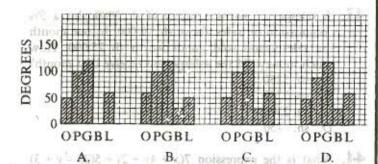
60

Q. P. R. IIS

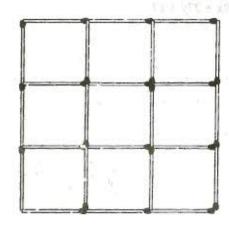
32. A farm produced oranges (O), Pawpaws (P), guavas (G), bananas (B) and lemons (L) The pie-chart below represents quantities of each type of fruit produced in one week. Pino C restormants



Which one of the bar graphs below represents the information obtained from the pie-chart above?



A = 17x + 23y + 2933. A pupil arranged matchsticks to form squares as shown below.



How many squares were formed altogether?

- A. 14
- B. 13
- C. 10
- D. 9

34. A plane left Nairobi at 23.50 hr on Monday and took 1 hr 45 minutes to reach Mombasa where it stopped for 50 minutes. It then left Mombasa and took 40 minutes to reach Zanzibar, and the

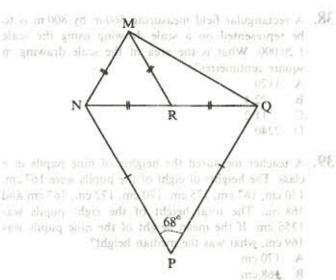
At what time in a.m./p.m. system did it reach Zanzibar? banuna for to 3

comatoes for sh 5

l orange for the ba

- A. 2.15 a.m.
- B. 3.05 a.m.
- C. 2.15 p.m. thlorq sgemeored all zew jailW
- D. 3.05 p.m.

35. In the figure below, line MN = NR = RM = RQ. NRQ is a straight line and line NP = PQ. Angle  $NPQ = 68^{\circ}$ .



What is the size of angle PQM?

- 56°
- B. 116°
- C. 86°
- 980 D.

3 notes of all follows  $\frac{m+r^2}{p+r}$  given m=2p, **36.** What is the value de lo ration 9

- 31
- D. 2

p = n + 5, n = 3r and r = 5? Ede-orit titut money into the bogon att live-still tow many five-shilling coins did she got. 23

41. A fundament meeting for Joko, Kabut., Manudur and Butto virtued at 108 000. Jano got three Hages as much as Buke. Masandu got two-tomos of Jaco's there while Kabula got half as much as falco. How

> 001 to de A B. so 28 500 C sh 21 690

mp 581 3

Muyaka had money as follows:

A notes of small 1900

37. A fruit vendor spent sh. 160 to buy 28 bananas, 60 tomatoes and 14 oranges. He paid sh 40 for transport. During the transportation, stomatoes and I banana got spoilt. He then sold the remaining fruits as follows:

market S. A.

B 3.05 a.m

35. In the lighte below, link

- I banana for sh. 3
- 3 tomatoes for sh. 5
- 1 orange for sh. 6

What was the percentage profit?

- 34% / = \$\frac{125}{125} \text{ would extend on all of all 38. A cectangular field measuring 560 m by 800 m is to be sepresented on a scale drawing using the scale 120 000. What is the area of the scale drawing in square centimetres?
  - 1120
  - B
  - 11.2 C
  - 2240
- 39. A teacher measured the heights of nine pupils in a class The heights of eight of the pupils were 167 cm. 170 cm, 167 cm, 175 cm, 170 cm, 172 cm, 167 cm and 168 cm. The total height of the eight pupils was 1356 cm. If the mean height of the nine pupils was 169 cm, what was the median height?

What is the size of angle POM?

A. 569

68

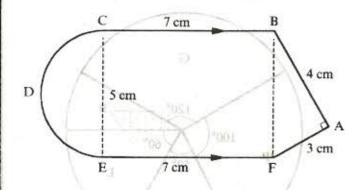
16 sittles off a tinfer saitte of

- A. 170 cm
- B. 168 cm
- C. 167 cm
- D. 165 cm
- 40. Muyaka had money as follows:
  - 4 notes of sh. 1000
  - 3 notes of sh. 500
  - 16 notes of sh. 200
  - 11 notes of sh. 100
  - 9 notes of sh. 50

She changed all the money into five-shilling coins. How many five-shilling coins did she get?

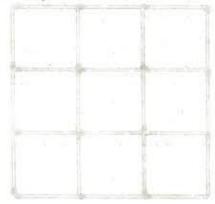
- A. 51 250
- B. 10 250
- C. 2 050
- D. 370
- 41. A fundraising meeting for Jako, Kabula, Masindu and Buko raised sh. 108 000. Jako got three times as much as Buko. Masindu got two-thirds of Jako's share while Kabula got half as much as Jako. How much did Kabula receive?
  - A. sh. 43 200
  - B. sh. 28 800
  - C. sh. 21 600
  - D. sh. 14 400

42. In the figure below, angle BAF is a right angle. Line CB is parallel to EF and CB = EF = 7 cm. Line BA = 4 cm and AF = 3 cm. EDC is a semi-circle of diameter 5 cm. produced in one week



What is the area of the figure in square centimetres? (Take  $\pi = 3.14$ )

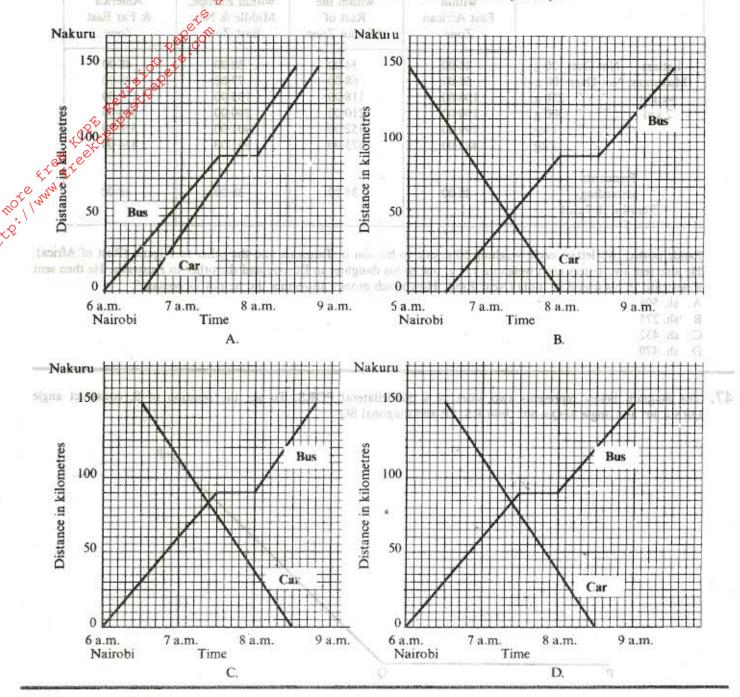
- A. 50-8125
- B. 56-8125
- C. 60-6250 and infrare and and to place there.
- D. 80-2500 -- sig add much beniated and samount
- 43. A salesperson earns a salary of sh. 2000 plus a 5% commission on sales above sh. 10 000. In one month the salesperson sold goods worth sh. 25 000. How much money did the salesperson receive that month?
  - A. sh. 3250
  - B. sh. 2750
  - C. sh. 2500
  - D. sh. 750
- **44.** What is the expression 7(x + 4y + 2) + 5(2x y + 3)in its simplified form?
  - A. 17x + 23y + 29
  - B. UP3x +3y + 29 delicitation beginnes lique A .E.E.
  - C. 17x + 3y + 5
  - D. 9x + 27y + 17



from many squares were correct aftergriner

Jisix

45. A bus left Nairobi for Nakuru, a distance of 150 km, at 6 a.m. After travelling for 1½ hours at an average speed of 60 km/h it got a puncture. It took 30 minutes to change the wheel. The bus then travelled at an average speed of 75 km/h for the rest of the journey. On the same day a car left Nakuru for Nairobi at 6.30 a.m. and took 2 hours to reach Nairobi. Which one of the graphs below represents the bus and the car journeys?



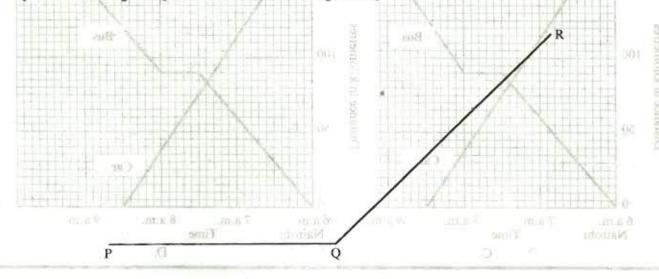
What is the length of line 5Q?

## 46. The table below shows the rates charged for postage: 1, 177 021 to scanned a junu few and identify the and A ...

Policie State of	Countries within East African Zone	Countries within the Rest of African Zone	Countries within Europe, Middle & Near East Zone	Australia, America & Far East Zone
Letters Not Over 20 g	28-00	34.00	38-00	48-00
(Maximum Not Over 200 g	58-00	68-00	77-00	98.00
weight 250 g	100-00	118.00	135-00	171-00
2 kg) 5"0" 500 g	180-00	210.00	240.00	306.00
2, 1 kg	299.00	352-00	401.00	510-00
2 kg	488-00	573-00	651-00	824-00
(exceeding 5 cm by 10.7 cm)	28-00	34-00	38-00	48-00

Sande posted two letters each weighing 50 g, one to his son in Tanzania and the other to Nigeria (Rest of Africa). He also sent two letters each weighing 150 g, one to his daughter in Europe and the other to Australia. He then sent a postcard to his friend in India (Near East). How much money altogether did he pay as postage?

- A. sh. 508
- B. sh. 275
- C. sh. 432
- D. sh. 470
- 47. The diagram below represents two sides of a quadrilateral PQRS. To get the position of S, construct angle QRS = 30° and angle SPQ = 60°. Join RS, SP and diagonal SQ.



What is the length of line SQ?

- A. 3-5
- B. 5-3
- C. 10-2
- D. 12-9

48. Odour invested a certain amount of money in a business that paid simple interest at the rate of 15% per annum. At the end of nine months he withdrew sh. 1125 which was the interest the money had earned. How much money had he invested?

A. sh. 100

B. sh. 5625

C. sh. 7500 D. sh. 10 000

49. In a cupbeard there are pencils, rulers and books. The number of pencils is 15 more than that of rulers. The number of books is three times that of rulers. If the number of pencils is p, which one of the expressions below represents the total number of items in the cupboard?

A. 5p-60

B. 3p-27

C. 5p + 60

D. 5p-30

Working Space

MATHE

READ THESE INSTRU

You have been given this question pooklet and a separa

Do any necessary rough work in this booklet

When you have bosen your answer, mark it on the AN

HOW TO USE THE ANSWER SHEET

Use only an ordinary pencil.

Make sure that you have written on the ansers sheet

YOUR INDEX

50.

ichool Code Nagaber





TIGHTS CAREFULLY



ine insido ilto Cambilair a

By drawing a dark and the three-light

Which one of the following shapes below should be drawn in the blank box to continue the pattern above?

For each of the questions 1: 50 four answers are given. The inswers are lettered A, B, C, D. In each case only ONE of the four answers in correct. Choose the correct asswers

which the letter you









 Op the answer sheet have chosen is write

Example In the Ouestion

24. The prior of sugar inequent from sh. 40 (2sh. 50 per kg. Whige was the percentage horsessed

100 A

25

D. 20% The correct answer is C (25%)

On the answer shret:

ROUNDING NAME OF STREET AND ADDRESS AS A STREET AS A S

In the third set, the loss with the fetter I printed in it is marked

How Your dark line Miles he within me non-

For each question ONLY ONL link is to be marked in each set of four burst.

this Oscalina Paper consists of 14 printed pages and 2 blank pages.