# KCPE 2001 properts vi

on 1425 water was the interest

Time: 2 hours

30 - 27

901

48. Odour invested a certain amount of money in a ousiness that paid sample mesest at the rate of 12% per annum. At the end of nine months he withdrew

The tramber of penalty is 15 more than that of rulers

The number of books is three times that of rulers. If

### READ THESE INSTRUCTIONS CAREFULLY

- You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
- Do any necessary rough work in this booklet.
- henevor 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

- 6. 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. 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, D. In each case only ONE of the four answers is correct. Choose the correct answer.
- 10. 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:

- 24. The price of sugar increased from sh. 40 to sh. 50 per kg. What was the percentage increase?
  - A. 125%
  - B. 10%
  - C. 25%
  - D. 20%

The correct answer is C (25%).

# On the answer sheet:

4 1A | B | C | D | 14 | A | B | C | D | 24 | A | B | m | D | 34 | A | B | C | D | 44 | A | B | C | D |

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

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

This Question Paper consists of 14 printed pages and 2 blank pages.

		75
1.	Which one of the following is six million,	eighty five
81	thousand, three hundred and seven?	ani I

ORI A2 6085037 BUT 25 - LHT

B. 6805037

C. 6085307

D. 6850307

2. What is 4990678 Tounded off to the nearest B. 4990700 500 C. 49914 thousand?

D. 5000000

3. What's the next number in the pattern 2, 6, 11,.

What is the use of angle IFH?

16. The cheeses for sending an inland to

MAKURU URGENTEY MEKESA

e white 28

C. 23

4. What is the value of 0.499 + 12.3 correct to 2 decimal places?

A 13.00

B. 12-80

C. 12-79

D. 12-799 to localit had to abrow 01 deal not

All extra words shill each 5. Sara and Lucia shared a piece of cloth such that Lucia got three times as much as Sara, What fraction of the cloth did Sara get?

GAL) KILOVI BOX 286 MALABA

6. What is the value of

17. There were 210 blue case  $148 \frac{1}{6} \frac{1}{6} \frac{29}{6} + \frac{1}{2} \frac{2}{6} \frac{1}{6} \frac{1}{6}$ 

If a pic-chart was drawn to representAthis information, what angle would represent 12 ye low

C. 11

D. 1 19

7. A shopkeeper bought 10 cartons of milk. A carton had 72 packets each of 500 ml. is Muss. Tom and

How many litres of milk were bought by the shopkeeper? slag yaam as 5000 boroos ms?
A. 360 000 / ms? and slag less out boroos

scored two goals less than Sam.

B. 36 000 /

C. 3 600 /

D

What was their total score? A 5n 2

B dr 1150

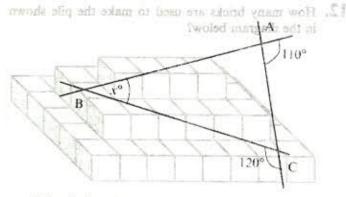
01 ds G

B. 542

2n-23n - 2

D. 3n+2

- 8. What is the place value of the digit 5 in the number mattee by 15 metres is to be fenced ?162 673 4
  - A. Hundred thousands and of the algorithm if
  - B. Five hundred thousands
  - C. Millions
  - D. Five millions
  - 9. The diagram below shows three lines which intersect to form triangle ABC.



What is the value of x?

A. 50°

B. 60°

C. 700

D. 130°

Mwanthuri bought a T.V. set 10. The table below represents arrival and departure times of buses from a company serving Isiolo-Nairobi route. paid a total of sh 9200.

CH 28

D 24

100

Towns	Arrival Time	Departure Time
Isiolo		6.00 a.m.
Naryuki	8.30 a.ni.	9.00 a.m.
Nyeri	10.15 a.m.	10.30 a.m.,
Karatina	11.15 a.m.	11,25 a.m.
Sagana	12.10 a.m.	12:20 p.m.
Murang'a	12.50 a.m.	1.00 p.m.A
Thika	2.45 p.m.	3.00 p.m.
Nairobi	4.00 p.m.	D 0.0405

How long does a bus take to travel from Nanyuki to Sagana?

A. 3 h 50 min

B. 3 h 40 min

C. 3 h 20 min

D. 3 h 10 min

11. A triangular plot measuring 7.5 metres by 12.5 metres by 15 metres is to be fenced.

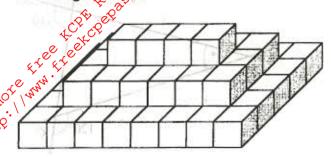
If the posts are to be 2.5 metres apart, how many posts are needed? Million or Swe million of G

The diagram below

What is the value of all

(8)

- A. 35
- B. 17
- C. 15
- D. 14 dw comi serii a Q
- Or ersit a pleasure mol all 12. How many bricks are used to make the pile shown in the diagram below?



- A. 62
- B. 48
- C. 28
- D. 24
- 13. Mwamburi bought a T.V. set on hire purchase terms. He paid a deposit of sh. 2000. The remaining amount was paid in 5 equal monthly instalments. He paid a total of sh. 9200.

How much was each monthly instalment?

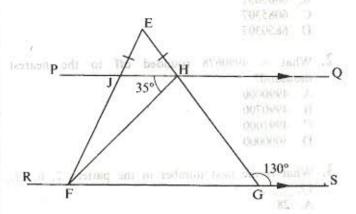
	Seach monthly it	
B. sh. 1840		fatolo
C. sh. 1440 D. sh. 400	at 8 0f. 8	Naryski

14. What is the value of

0 · 48 × 0 · 0135	11.15 a.m.	Karatina
0.016	12.10 a.m. ?	Sagnua
A. 40 5	12.50 a m	5 harani
B. 4·05	2.45 p.m.	Tulka
C. 0·405 D. 0·0405	4.00 p.m.	Name

How long does a bus take to travel from Nanyula to

15. In the figure below, lines PQ and RS are parallel. Lines EJF and EHG are straight. Lines EJ and EH are equal. Angle FHJ = 35° and angle HGS = 130°



What is the size of angle JFH?

- A. 80°
- B. 50°
- C. 45°
- D. 15°
- 16. The charges for sending an inland telegram were as follows:

What is no wise out at halfw

The first 10 words or part thereof sh. 10. All extra words sh. 1 each.

A commission of 15% on the total was charged.

What was the cost of sending the following telegram?

GAD KILOVI BOX 200 MALABA COME NAKURU URGENTLY NEKESA

- A. sh. 12-65
- B. sh. 11-50
- C. sh. 10-35
- D. sh. 10
- 17. There were 210 blue cars, 168 red cars, 336 white cars and 126 yellow cars in a car park.

If a pie-chart was drawn to represent this information, what angle would represent the yellow cars?

B. Went is the sense of

- A. 90°
- 54° B.
- 72° C.
- I shookeeper hought to carrons of mits
- had 7" packets each of 500 an 18. Musa, Tom and Sam scored goals for their team during a football match. Musa scored n goals while Sam scored twice as many goals as Musa. Tom scored two goals less than Sam.

What was their total score?

- A. 5n-2
- B. 2n-2
- C. 3n-2
- D. 3n + 2

Sagann" man (R. d. f. A.

new Wart # 8

ec at the life in

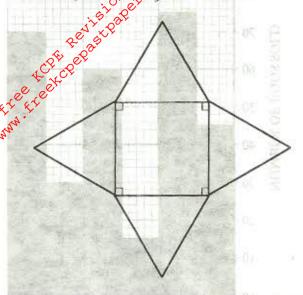
19. What is the square root of  $7\frac{9}{16}$ ?

B. 13

C. 11

D. 73

20. The figure below shows a net made up of a square and four equilateral triengles.



Which one of the following solids can be formed from this net?

- A. Square prism
- B. Triangular prism
- C. Square pyramid
  - D. Triangular pyramid

21. Flour is packed in 2.5 kg packets. If the weight of flour in the packets is increased by 25%, what would be the new weight of the packet?

- A. 3-125 kg
- Beilg kgrung are sadso ares garage at a El
- bur C: 1-875 kg of bluew stom flour work ave to to
  - D. 0-625 kg

22. What is the value of  $\frac{2s+r}{q}$ , if q=4, r=2q+1 and s = r + 2?

he been given a discount of 5%?"

- A. 5
- B. d. 6 4 factory brief 46 facotions to complete \$6.0.6 2.1
- nows If 12 labourers failed to turn up for the on
  - D. 7.2 mill odw agod leb smed men ymas wed

23. Moki had 190 fifty shilling-notes. He changed sh. 6000 into one thousand shilling-notes and the rest into five hundred shilling-notes.

How many five hundred shilling-notes did he get?

- A. 9500
- B. 19
- C. 3500
- D. 7

24. On a map drawn to the scale 1:500 is a plot of land in the shape of a trapezium whose parallel sides measure 5 cm and 2 cm. The perpendicular distance between the parallel sides is 4 cm.

What is the actual area of the plot in square metres?

- A. 35 000
- 3 500 B.
- C. 350
- 29. The figure below is made up of 1425 semi D

25. Three factories Buka, Sakono and Rama produce sugar in one hundred kilogramme bags daily. Buka produces three times as much as Rama. Sakono produced two times as much as Rama.

If Sakono produces 500 bags, how many tonnes altogether do the three factories produce daily?

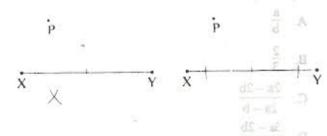
- B. 75
- C. 150
- D. 300
- 6. A dealer paid sh. 15 000 to an agent as commission for the sale of a car. The commission was 2% of the What is the perimeter of the figure price.

How much money did the dealer remain with from the sale of the car?

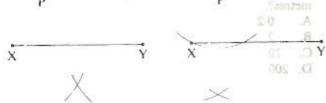
All. Which one of the following expressions is the sim-

- A. sh. 1 470 000
- B. sh. 765 000
- C. sh. 750 000
- D. sh. 735 000

27. Which one of the following diagrams shows arcs that lead to the construction of a perpendicular from point P to line XY?







C.

D.

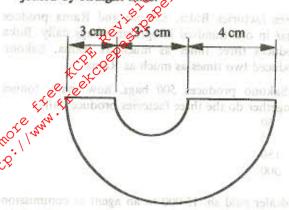
to complete the job?

28. Asha deposited sh. 4800 in a bank which paid interest at the rate of 12% p.a. How much did she have in the bank after six months?

THE THE THE

Committee siden is it imi

- A. sh. 288
- B. sh. 5088
- C. sh. 5376
- D. sh. 8256
- 29. The figure below is made up of two semi-circles joined by straight lines.



What is the perimeter of the figure?

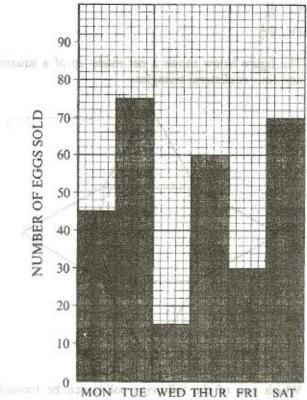
(Take 
$$\pi = \frac{22}{7}$$
)

- A. 18 cm
- B. 22 cm
- C. 29 cm
- D. 51 cm
- 30. Which one of the following expressions is the simple wince one of the following diagrams to motive

$$\frac{2(a+2b)+a-4b}{4(2b-a)-5b+4a}$$
?

- 31. A rectangular tank is filled with 6 000 litres of water. The base area of the tank is 30 000 square centimetres. What is the height of the tank in metres?
  - A. 0.2
  - 2
  - C. 20
  - D. 200

32. The bar graph below shows the number of eggs sold by Mutiso in six days. The highest number of eggs sold was 75.



DAYS

22. What is the value of

0027

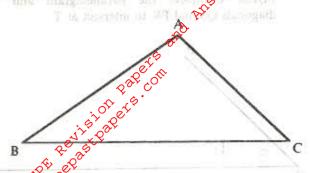
S. Triangular press. In which three consecutive days was the total number of eggs sold the highest?

- A. Tue, Wed, Thur
- B. Mon, Tue, Wed a set of boxose si more . II
- C. Thur, Fri, Sat personni si steshaso anti mi suofi
- D. Wed, Thur, Frigner of the original war and ad
- 33. Ali paid sh. 3700 for a radio after getting a discount of 71%. How much more would he have paid had he been given a discount of 5%?
  - A. sh. 100
  - B. sh. 200
    - C. sh. 3800
    - D. sh. 4000
- 34. A factory hired 48 labourers to complete a job in 24 hours. If 12 labourers failed to turn up for the job, how many more hours did those who turned up take to complete the job?

three many five hundred shinking-notes did he cut?

- Bouggers all secon-goding with 021 ban isom .E.S.
- tto Col 48per 201011-Rolling Personal 2010 July 1911 0009

35. Triangle ABC, shown below, has been drawn accurately.



What is the size of angle CAB?

ote with 79°

D. 101°

36. Maria sat for ten subjects in an examination. Her marks in nine subjects, excluding science, was as in lifellows: I of A nwel mort gollerant too A (Ca

> Mathematics 78, Kiswahili 81, GHC 77, Religious Education 69, English 73, Art and Craft 60, Agriculture 52, Business Education 60, and Home Science 55.

> If her total marks in the ten subjects was 680, what was her median mark?

- A. 60
- 49. The meample's while seem shows the 80 p.Bmg of
- TOTAL CO. 71s down throod a bott with the sign signed
  - Diw75 for a weithing to receive of l' exclusion
- 37. Atieno bought 2 kg meat @ sh. i35, 1 kg sugar for sh. 48, 3 kg rice @ sh. 42 and  $\frac{1}{2}$  kg salt for sh. 12. She paid for the items with a sh. 500 note.

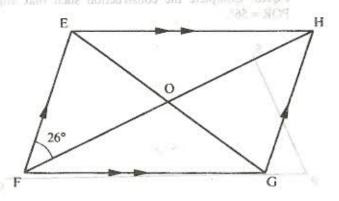
What balance did she get?

- A. sh. 456
- B. sh. 263
- C. sh. 50
- D. sh. 44
- 38. A closed cylindrical tank has a radius of 1.05 m and a height of 2 m. What is the surface area of the

(Take  $\pi = \frac{22}{7}$ )

- A. 20-13 m<sup>2</sup>
- B. 16-665 m<sup>2</sup>
- C. 13-2 m<sup>2</sup>
- D. 6-93 m<sup>2</sup>

39. In the figure below EFGH is a rhombus, Angle EFO = 26°.



What is the size of angle OGH?

- A. 128°
- 64° B.
- C. 52°
- D. 36°
- 4). The table below shows the rates for sending letters and post cards through a post office in 1998.

Type of Article	Weight	Charge shs. cts.
Letters	Not over 20 g	■ 0914 · 00
(Limit of	., 50 g	17 - 00
weight 2 kg)	,, 100 g	18 · 00
morres and hei	250 g	1E 28 00 ·
all ni reuse fall	wolf, 19500 g	46 00
	,, 1 kg	75 00
	" 2 kg	110 . 00
Post cards	Each	00421-00

Amina sent the following letters and post cards:

Three letters each weighing	49 g
One letter weighing	150 g
Five letters each weighing	800 g
One letter weighing	1.5 kg
Two post cards	SHO SHEW STIDES
I the sens of the plot in square	Living Salami III

How much did she pay for the postage?

- A. sh. 599
- B. sh. 588
- C. sh. 564
- D. sh. 242
- 41. Kantai bought 200 chicken whose average weight was 1.5 kg. The buying price per kilogram was sh. 150. He then sold each chicken for sh. 250.

What percentage profit, to the nearest whole number, did he make? 1.

D. 240

8

- A. 10%
- B. 11%
- C. 67%
- D. 90%

effethy, nights

42. Below is part of the construction of actrapezium PQRS. Complete the construction such that angle  $POR = 56^{\circ}$ .



What is the length of the side RS?

A. 8-0 cm

7.3 cm

C. 4.5 cm

D. 3-5 cm

43. In a school, one bell rings after every 30 minutes while the other rings after every 35 minutes. If the two bells rang together at 8.15 a.m., at what time did they ring together next? voc or Article

A TUR

A. 11.45 a.m.

B. 3.30 a.m.

C. 9:20 a.m. 05 1870 1014

D. 1.45 a.m.

8 = 001 44. A circular tank of radius 1-4 metres and height 2 metres is full of water. How much water, in litres, is in the tank?

 $(Take \pi = \frac{22}{7})$ 

A. 17 600

B. 12 320

C. 6 160

Amma sent the following letters at 12-32

45. A plot of land is in the shape of a right angled triangle. The length of the longest side measures 26 metres while one of the shorter sides measures 10 metres. What is the area of the plot in square How much did she pay for the postage? ?sentem

Three letters each working

A. 60

B. 120

C. 130

D. 240

46. In a function, the number of women was twice that of men. The number of children was half the total number of men and women. The function was attended by 270 people. How many children attended the function?

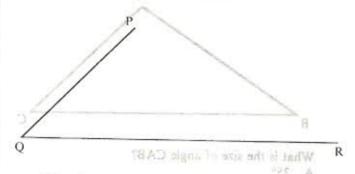
A. 90

B. 120

C. 180

D. 60

47. The diagram below is an incomplete parallellogram PQRS. Complete the parallelogram and draw diagonals QS and PR to intersect at T.



B 44

What is the size of angle PTQ?

31°

43° B

C. 106°

D. Marin bal for an expected in an example. Of

mark in once subjects, excluding scenario wa 48. A car travelling from town A to town B at an average speed of 80 km/h took 54 minutes. Another car took 40 minutes to travel the same distance. What was the difference in their speeds in km/h?

A. 8

B. 28

If her total marks in the less subjects at \$6682 what

49. The incomplete table below shows the numbers of people who attended a football match and the gate charges. The number of children is not shown.

was her median mark?

Sh. 135, I kg sug d c kg sail for	No. of people	Gate charges in ksh.
Children -	E DELW AMON SAN	5
Students	600	325 A 20 A
Female Adults	440	B.06th. 263
Male Adults	500	50 CI

If the total amount collected was ksh. 60 000, how many people altogether attended the match?

A. 200

B. 1000

C. 1540

D. 1740

A 20-13 mf H 16 065 m

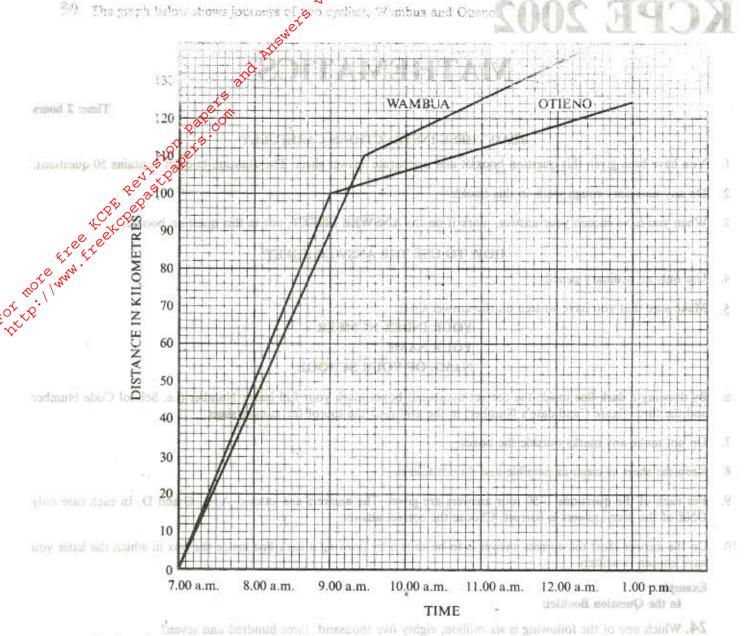
Take T = T

N sh 599

882 Hz E

( sh. 564

D sh 242



At what time was Otieno 10 km ahead of Wambua?

A. 10.30 a.m.

B. 9.27 a.m.

C. 9.00 a.m.

D. 7.12 a.m.

A. 6 085 037

R 6805101

OF FORD

Or Course

D (188) 20

The correct answer is C (6 085 107).

On the answer sheet:

54 10 10

In the third set, the box with the letter C proceed in it is marked,

11. Your dark line MUST be within the box.

12. For each question ONLY OWE box is its its research in each set of lour boxes

This Omerica Pages coming of 15 printed pages and I black rage