

THE FINAL CURVE K.C.P.E TRIAL-2020

-MATHEMATICS-Time: 2 hours

READ THESE INSTRUCTIONS CAREFULLY

- 1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
- 2. Do any necessary rough work in this booklet.
- 3. When you have chosen your answer mark it on the ANSWER SHEET, not in the question paper.

HOW TO USE THE ANSWER SHEET.

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

YOUR INDEX NUMBER

YOURNAME

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 Candidate's Number) in the grid near the top of the answer sheet.
- 7. Do not make any marks outside the boxes.
- 8. Keep your answer sheet as clean as possible and DO NOT FOLD IT.
- 9. 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 show the correct answer by drawing a **dark line** inside the box in which the letter you have chosen is written.

Example

In the Question Booklet:

- 12. Change three thousand hectometres into kilometres
 - A.3
 - B. 300
 - C. 30
 - D.0.3

On the Answer sheet:

The correct answer is B. (300)





ゴ 33 ∖1. is 12. In the set of boxes number 12, the box with letter **B** printed in it is marked.

Your d ark line MUST BE within the box.

Fore ach question ONLY ONE box is to be marked in each set of four boxes.

a

This question paper consists of 8 printed pages.



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TURNOVER

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D] [] [1

- 1. What is 7742.59234 to the nearest thousandth?
 - A. 7742.590
 B. 7742.592
 C. 7742.5923
 D. 7743.000
- 2. Four bells ring at intervals of 12 minutes, 8 minutes, 16 minutes and 24 minutes. If they rang together at 11.12 am, when will they ring together again?
 - A. 12.00 noon
 - B. 10.36 am
 - C. 12.00 mid night
 - D. 10.36pm
- Arrange the following numbers in descending order. 0.125, /, 0.325, /,2
 A. 0.125, /, 0.325, /,
 B. /,/,0.325,0.125
 €.0.125,0.325, /, /%
 D.0.325, /, /, 0.125
- What is the difference between five million two hundred and fifty four thousand six hundred and one and eleven mil'ion?
 A. 75453999
 - B. 574539
 - C. 5749953
 - D. 5745399
- 5. Work out the sum of the total value of digits in the hundreds and thousands position in the number 4789463.
 - A. 4789400
 - B. 8600
 - C. 9400
 - D. 9463

- A flour milling company packed 3 tonnes of sugar into 1500 grams packets. How many packets of flour did they get?
 - A. 20000B. 200C. 200 000D. 2000
- 7. A project assessor awarded seven different projects an average of 5 points. He had awarded six projects the following scores: 8,2,4,6,3,4. What was the median score fcr the seven projects?
 - A.7 B.4 C.6
 - D. 7
- 8. What is the square root of 4/,, A.2'4
 B.2%,
 C.1/,

D.16/,

9. What is the value of 0.08 x 2.8 x 0.61.2 x 0.2

A.O.56 B. 0.056 C. 56 D. 5.6

B. 5

C.1 D.4

10. Work out the value ofy in $3y\pm4-'/=3$ 2 A.



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MATHEMATICS STD8

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11. Calculate the area of the figure shown below.(9x+3)cm	14. In a church, the ratio of men to women is9:7. If there are 32 more men than women, how many members are there in that church A.184B.625
(4x)cm	C.256
	D.562
2(3x+6)cm A. 203 cm ² B. 69 CM C. 360 CM D. 195 cm ²	 15. Four hundred and eighty-2dl packets of mill were emptied into a 120-litre container. How many more such packets of milk were needed to fill the container? A.240 B.120
12. Two men take 5 days to plough a piece of land. How many men will be required to plough the	C.24 D.12
same piece of land in 2 days? A.5men B.2men	 16. Mbaka bought the following items from G-mart super-market 2' Ag of fonions @ sh 40
C.6men	'Ag of meat @sh 440
D. 12 men	2kg of sugar for shl 33 4kg of carrots @sh20
 13. In Kam Kam game reserve the number of antelopes was twice that of giraffes. The number of zebras was half the total number of both antelopes and giraffes. If there are 2700 animals altogether, how many zebras were there? A.900 B.1200 	 2'/,kg of potatoes @sh 60 He paid for the items using two five hundred shillings notes. How much balance did he get? A.sh317 B.sh 427 C.sh340 D.sh 327



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MATHEMATICS SFD 8



- 17. The charges of sending a telegram were as follows: Sh 10 for the first 10 words or less. Any extra word was charged sh 1.50 each. A tax of 10% was charged on the total amount. The total amount payable was then rounded off to the nearest 10 cents. What was the cost of sending the telegram below? KABUGA GICHOHI BOX 143 SHAMAKHOHO GITHONGO ADMITTED STMARYHOSPITAL. SEEHIMMUGO. A. Sh 19.30 B. Sh 19.25 C. Sh 20.00 D. Sh 19.00
- **18.** The pie-chart shows how John spends his monthly salary. If he spends sh. 6400 on food, how much more does he spend on rent than on clothing?

Rent

A.Sh. 1600 B.Sh. 2000 C.Sh. 3600 D.Sh. 2400

19. The mass of 3 boxes containing oranges is 93.9 kg. An empty box weighs 1.75 kg each and contains 394 oranges. What is the average mass of an orange?
A. 75gm
B. 75 kg

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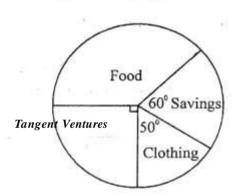
C. 75gm D.7.5 20. A shop allowed a 5% discount on all articles.Mary bought aj embe whose marked

price was sh. 500. How much less than sh. 1000 did she pay for the jembe? A.Sh475 B. Sh.25 C. Sh.95

- D.Sh. 525
- D.SII. 323
- **21.** The figure below shows Maureen's piece of land. Calculate the distance around *it* three times.

18m

12m



gm

Working space

*40***f**8

27m

A.72m B. 270m C. 216m D.15m

Wekesa invested some money in a business that paid interest at the rate of 15% p.a. At the end of nine months he withdrew sh 1125, which was the interest earned. How much had he invested?
A.Sh. 13500
B.Sh.7500
C.Sh.90000
D.Sh. 10000

MATHEMATICS STD8



- 23. The shaded part shows a field that was watered 27. by a sprinkler at a given time.14m
- 27. Which one of the following statements is **true**?

10m

given time.
$$(7 = 7, 7)$$

A. $1.8m^2$
B. $9.625m$
C. $38.5m^2$
D. $7.1m^2$

- 24. Simplify the following expression √(32a+16b)+2 (2a- 4b) A. 4a-12b B.12a-4b C. 4(3a+b) D.12a+2b
- 25. Mr. Patel borrowed sh. 5000 from a bank that charged interest at the rate of 12% p.a. Calculate the amount of money he paid after 18 months.
 A: Sh: 5350
 - C.Sh.5900 D. Sh. 10800
- 26. Chumisa's salary is sh. 12600. She always uses 10% of her salary on food. If she is given a 10% increase. What is the difference between the amount spent on food before and after the increase?
 A. Sh.126
 B. Sh. 252
 C.Sh.2520
 D. Sh. 2772

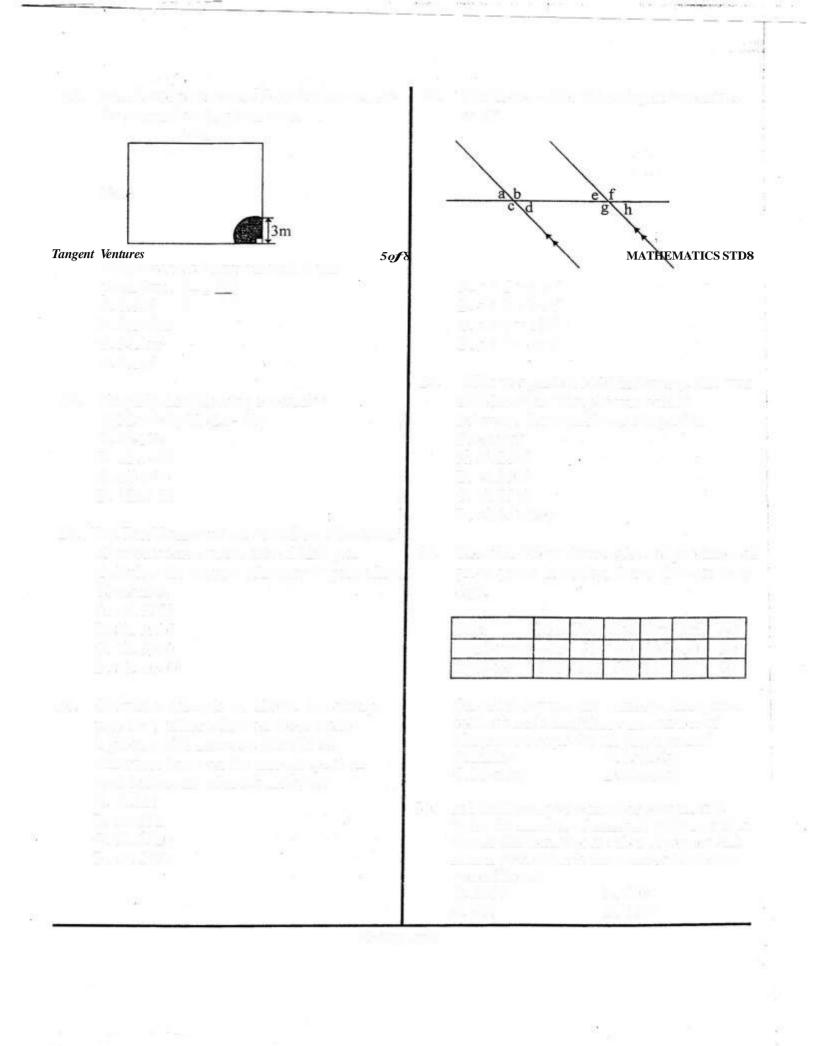
A. c+d=g+fB.c+h=b+fC. $a+g=180^{\circ}$ D.g+f=e+h

- 28. Philis was paid sh 3000 in January. This was 16% less than what she was paid in February. How much was she paid in February?
 A. Sh2850
 B. Sh 3500
 C. Sh 7500
 D. Sh 3571.40
- **29.** The table below shows sales and purchases of green grams in Budoyi Green Grocers for 6 days.

Days	Mon	Tue	Wed	Thu	Fri	Sat
Kgs bought	420	50	100	105	60	30
Kgs sold	180	140	50	70	90	40

On which day was the number of kilograms sold one and a half times the number of kilograms bought for the green grams? A. Friday C. Monday D.Thursday

30. In Nandi village the number of women is twice the number of men and 1000 less than that of children. The number of women and men is 900. What is the number of women and children?
A. 2200 B. 400
C. 600 D. 1600



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- Find the surface area of the curved surface of a cylinder whose diameter is 140m and height 48m. (Use[, -27) A. 2012n²
 - B. 21120m°
 - C. 10560m²
 - D. 684m

32. Mwangi woke up at 03.45am. At what time had he slept, if he had slept for 6hrs 13 minutes?

- A. 0932 hours
- B. 2332 hours
- C.2132 hours
- D. 2231 hours

33. A research confirmed that that 9 girls dropped out of school after every 3 months. Also 6 boys dropped out of school in the same period. How many pupils dropped out of school in the year 2013?A. 81

- **B**. 36
- C. 3
- D. 60

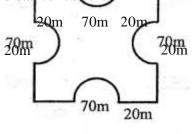
4. The table below shows Oloo's crop Cropproductions in his farm in the year 2012 in s amount of onions is not shown in the table

> es /Onions. 'ucumber!Tomatoe 13 20

If he produced a total of 72 tonnes of produce, what angle in a pie would represent the onions? A. 45°

- **B**. 30°
- C. 115°
- D. 75°

- 35. Construct triangle XYZ in which XY=8cm, YZ=7cm and angle XYZ=75. Draw a circle to pass through points XY and Z. What is the diameter of the circle?
 A. 9. 5 cm
 B. 4.7cm
 C. 10cm
 D. 9.0cm
- **36.** A boy went round the figure below five times. What distance did he cover? Calculate the distance covered in km



20m

20m

A.0.3km B. 0.44km C.3km D.2.2km

20m

37. Which of the following numbers is divisible by 8?
A. 60524
B. 92482
C. 52384

D. 172145

C. Sh. 5500 D. Sh. 5325

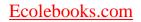
38. Joseph made sh. 935 profit after selling some items. If this represented 17% profit, at how much would he have sold the items to make 15% profit?
A. Sh. 5500
B. Sh. 4565



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MATHEMATICS STD 8





- 39. A lorry left Mombasa for Nairobi on Tuesday at 2145hours. It arrived 8hrs 20 min later. At what *time* and day did the lorry arrive in Nairobi?
 A. Tuesday 6.05a.m
 B. Wednesday 6.05p.m
 C. Tuesday 6.05 p.m
 - D. Wednesday 6.05 a.m
- 40. Which statement among the following is true about a closed cuboid
 A. It has 6 faces, 8 vertices and 12 edges
 B. It has 4 faces, 18 vertices and 14 edges
 C. It has 9 faces, 9 vertices and 9 edges
 D. It has 12 faces, 8 vertices and 12 edges
- Amotorist covered 324 km driving at an average speed of 72km/h. He then drove at 88 km/h for 1'/, hours. What was his average speed for the whole journey.
 - A. 72km/h
 - B. 75km/h
 - C. 76km/h
 - D. 80km/h
- 42. If the volume of a cylinder whose height is

12cm is 7392cm³. Find its diameter.

- A.14cm B. 28cm
- C.7cm
- D. 196cm
- 43. The mean age of 54 pupils in a class is 13 years. Plus their teacher the mean age becomes 13/, yrs. What is the teacher's age?
 A. 21 ¹/₂% years
 B. 35 years
 C. 55 years
 D. 18 /, years

- **44.** The table below shows a distance table from towns between A and town F
 - <u>A</u>. 40 B 120 80 C 185 145 65 D 278 238 158 93 E 333 293 213 148 55I F

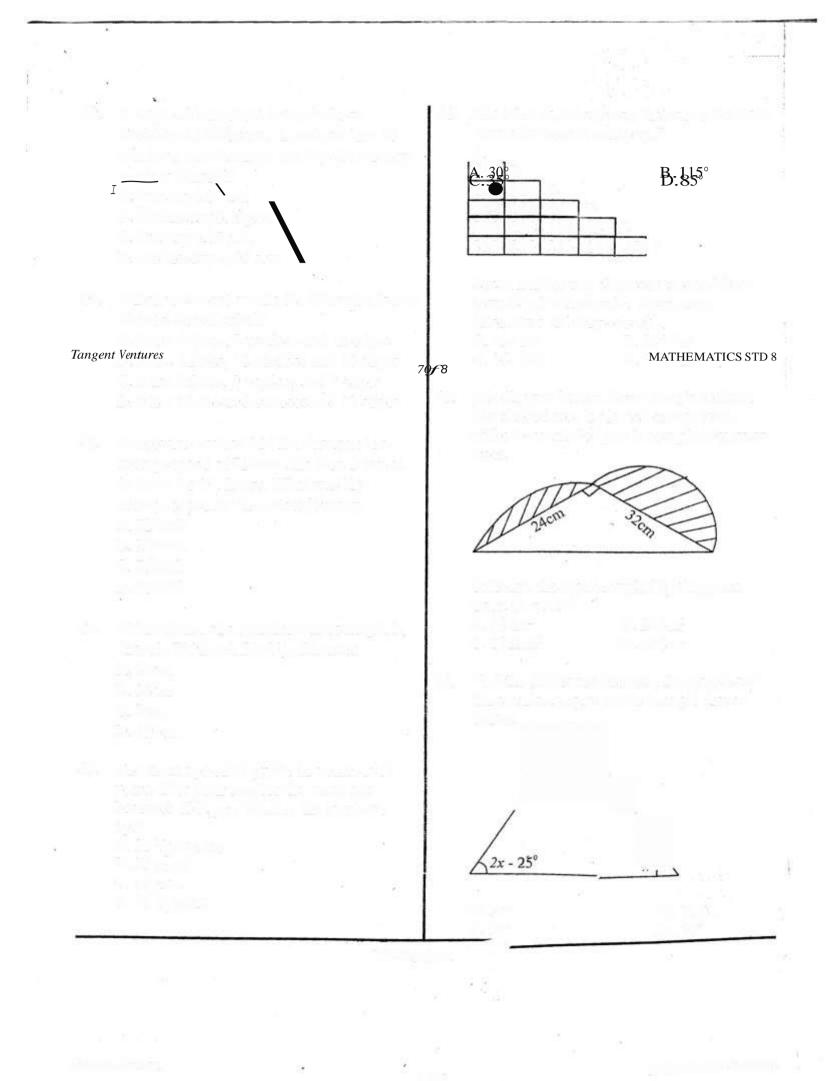
Susan and her two children travelled from town B to Evia town D. How many kilometres did they cover? A. 238 km C. 262 km D. 219 km

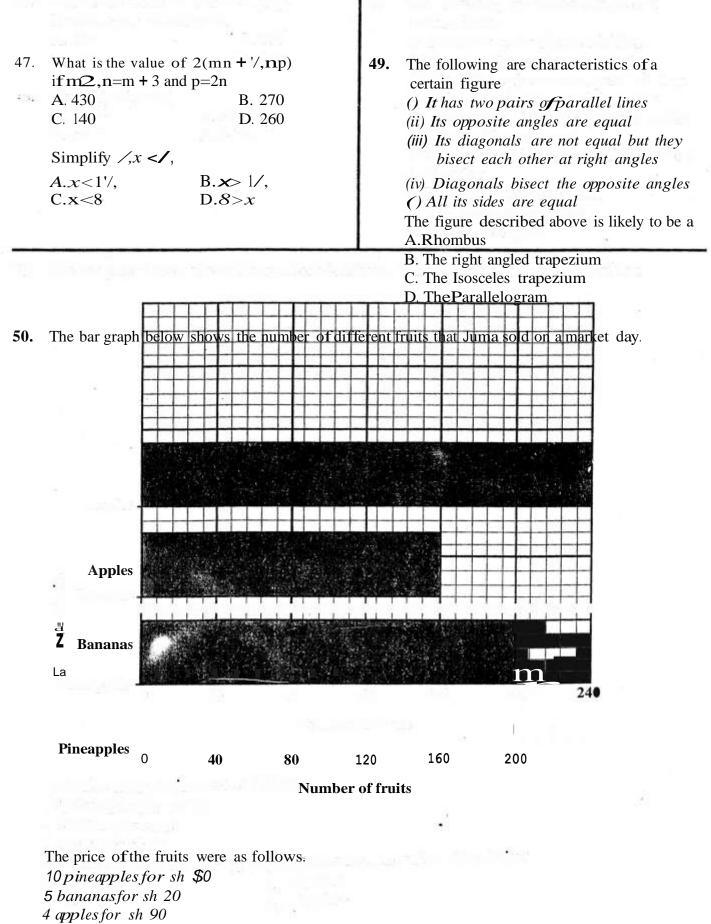
45. The diagram below shows Juma's orchard. The shaded area is planted orange trees, while the unshaded part is occupied by guava trees.

Calculate the area	occupied by the guava
trees. (n =3.14)	
A. 384m ²	B . 244m ²

C. $1012m^2$ D. $628m^\circ$

46. Find the difference between the largest and the smallest angles of the triangle drawn below.





How much money did he receive igether from the sales of the fruits?

80 18



A. Sh 2000	B. Sh 7640
C. Sh 6000	D. S'h 8240

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MATHEMATICS STD 8