# ACHIEVERS FOCUS **EXAMINATION** SERIES Kenya Certificate of Primary Education (K.C.P.E)

STANDARD 8 – CODE 001 – 2020

# MATHEMATICS

Time: 2 hours

### READ THESE INSTRUCTIONS CAREFULLY

- 1. You have been given this question booklet and separate answer sheet. The question booklet contains 50 questions.
- 2. Do any necessary rough work on 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

- 4. Use only an ordinary pencil.
- 5. Make sure 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 three-figure Candidate's Number) in the grid near the top of the answer sheet.
- 7. Do not make any marks outside the boxes
- 8. Keep the sheet as clean as possible and not fold it.
- 9. 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.
- 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:

11. What is the value of  $\frac{6(24-18)+6X4}{6}$ 

A. 30

- B.25
- C. 10
- D.28

The correct answer is C (10)

On the Answer Sheet:

(B] (C IO] HEB IA] (861) E (A] IB) IC] ID] EI IA] IB (CJ (DI EI (A (B (C) ID

11. Your aark line must be within the box.

<sup>∞</sup> For each question only one box is to be marked in each set of four boxes.

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- What is lwonly six illion two hundrod and oight thousand and sixty loss four hundrod and twonty thousands in figures?
  - A. 2620440
  - 8. 26628060
  - C. 25788060
  - D. 25860060
- 2. Find the value of digit 4 in the product of 0.24 and 210.
  - A. Tenths
  - B. Four tenths
  - C. Hundreds
  - D. Four
- Find the sum of the smallest and the largest number that can be formed from the digits:
  - 6, 1, **0,9,5**.
  - A. 94941
  - B. 95941
  - C. 98079
  - D. 107079
- 4. Find the capacity of a cylinder in litres if the base area is 616cm? and it has a height of 20cm.
  - A. 12320
  - 8 123200
  - C. 102320
  - D. 12.32
- Round off 16499 t0 [fie nearest ton thousand.
  A.
  16000. B.
  16500
  - C. 20000
  - D. 27000
- 6. Work out: 20.005+ 50
  - A. 40001
  - B. 0.4001
  - C. 4.001
  - D. 0.04001

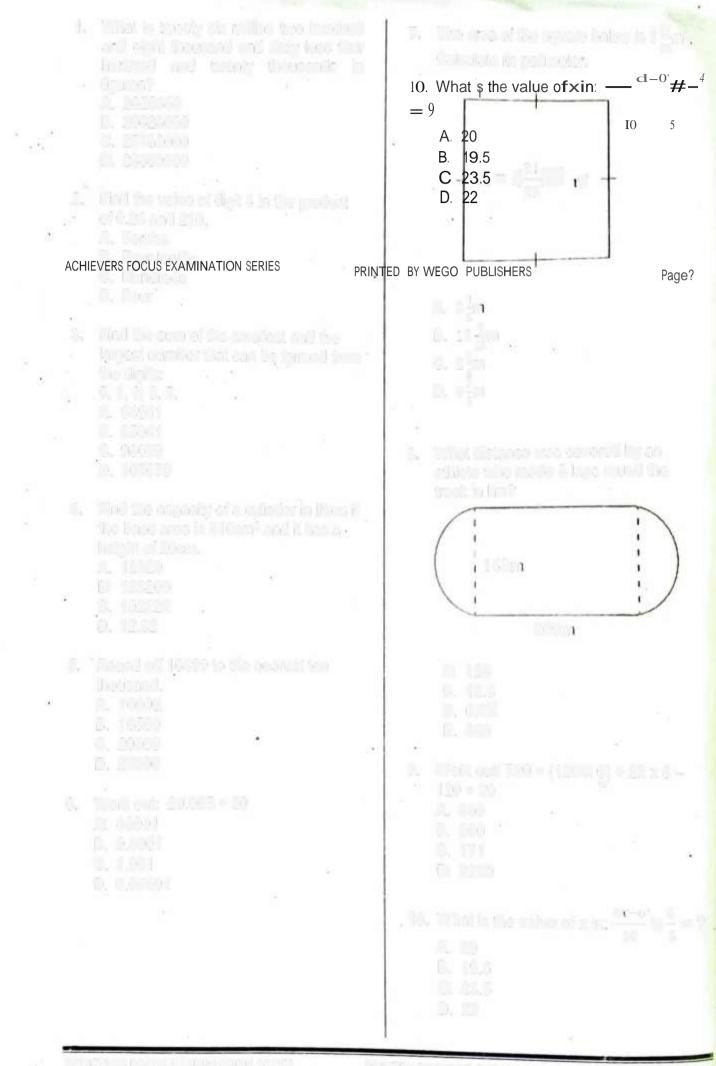
7. Tho aroa ol tho square bolow is  $4 m^2$ . Calculato its perimotor.

 $A = 4^{2^{2}} m^{*}$ 

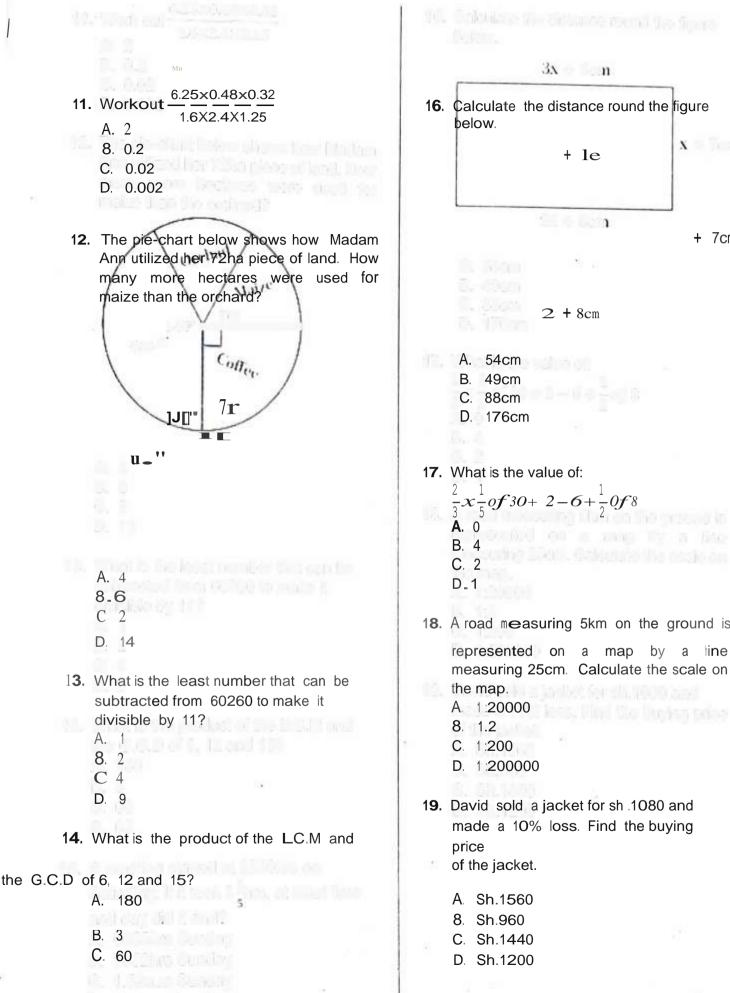
- A.  $8\frac{4}{.}$ B. 19 mC.  $2\frac{2}{.}$
- 8. Whal distance was covered by an athlete who made 8 laps round the track in km?

1**40**m

- 200m
- A 128
- B. 12.8
- C. 6.72
- D. 840
- 9. Work out 720 (12O 6)+ 22×8 120=20 0
  - A 450
  - B. 900
  - C. 171
  - D 225



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1 + 7cm **1**) 2 + 8cm D. 176cm 17. What is the value of:  $\frac{2}{3}x\frac{1}{5}of 30+2-6+\frac{1}{2}of 8$ 

3x \_\_\_\_n

+ le

X 1

18. A road measuring 5km on the ground is represented on a map by a line measuring 25cm. Calculate the scale on the map.

- 19. David sold a jacket for sh 1080 and made a 10% loss. Find the buying

DOWNTED DU WIECO DUDI ICHERC

# D. 63

- 15. A meeting started at 2240hrs on Saturday. If it took 35hrs, at what time and day did it end?
  - A. 0055hrs Sunday
  - 8. 1352hrs Sunday
  - C. 1.52a.m Sunday
  - D. 1.52pm Sunday

20. Calculate the area of the figure below in ha.

90m

60m

70m

120m

- A. 0.63
- 8. 63
- C. 630
- D. 6.3
- **21.** A packet of salt weight 125g. How many such packets will be needed to make a total of 1.2tons?
  - A. 96000
  - 8, 9600
  - C. 960
  - D. 96
- 22. The bar graph below shows the number of newspapers a news vendor sold over a week.

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- **O** -.
- Ο
- 2 76 60
- 80 ~

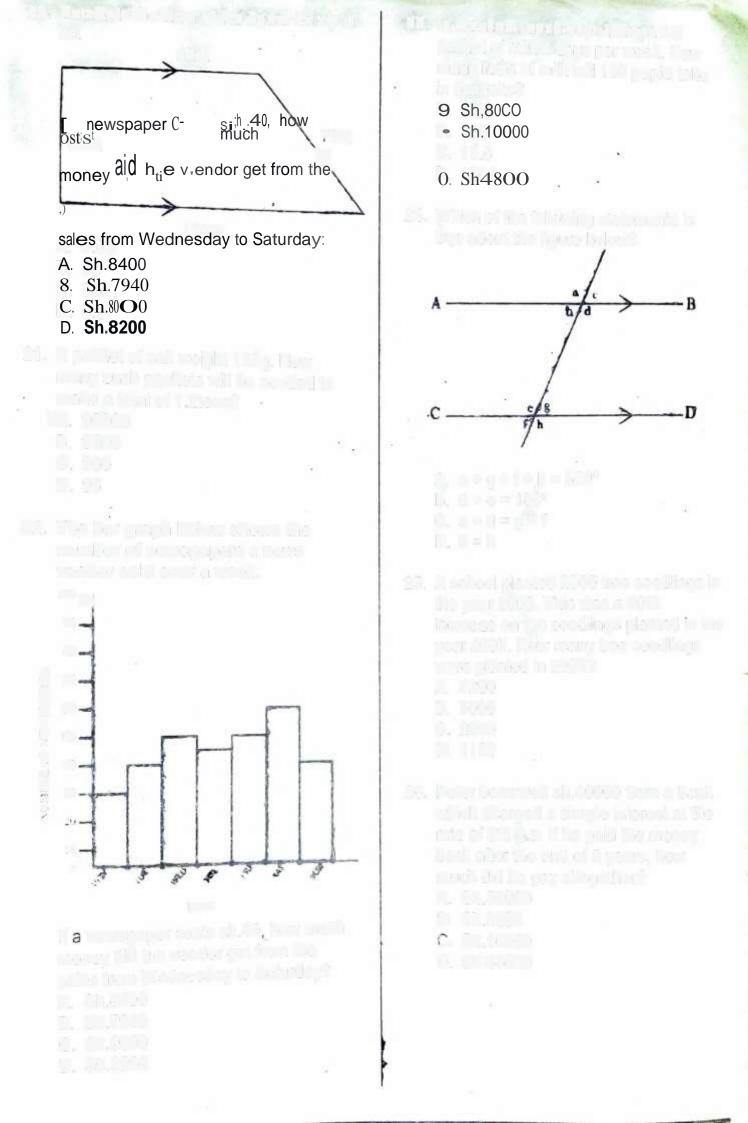
,£,, \*.., ? 20



- 23. In a school, each pupil takes a 2dl packet of milk 2 days per week. How many litres of milk will 130 pupils take in 3 weeks?
  - A. 1.56
  - B. 156
  - C. 15.6
  - D. 1560
- 24. Which of the following statements is true about the figure below?

- A.  $a + g + f + h = 360^{\circ}$
- B.  $d + e = 180^{\circ}$
- C. a+d=g+f
- D. b = h
- 25. A school planted 2800 tree seedlings in the year 2008. This was a 40% increase on the seedlings planted in the year 2007. How many tree seedlings were planted in 20072
  - A. 4200
  - 8. 7000
  - C. 2000
  - D 1120
- Peter borrowed sh.40000 from a bank which charged a simple interest at the rate of 5%p.a II he paid the money back after the end of 5 years, how much did he pay altogether? A. Sh.50000

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27. The figure below represents Joram's homestead. Find its area in Ares.

## **48**m

32. How many cubes have been used to make the stack below?

**70**m

- A. 33.41
- B. 0.3341
- C. 3341
- D. 3.341
- 28. Six people can do a piece of work in 12 days. How many more days will it take four people working at the same rate take to complete the work?
  - A. 6
  - B. 8
  - C. 4
  - D. 18
- **29.** What is the complement of 37 0
  - A. 53 !°
  - **8**. 52<sup>°°</sup><sub>4</sub>
  - C  $142\frac{1}{4}^{\circ}$

  - **0**. 143 **!**°
- 30. Solve:
  - (16905 1500 + 1025 1225) + 5
  - A. 2631
  - 3041
  - C. 3121
  - 0. 15205

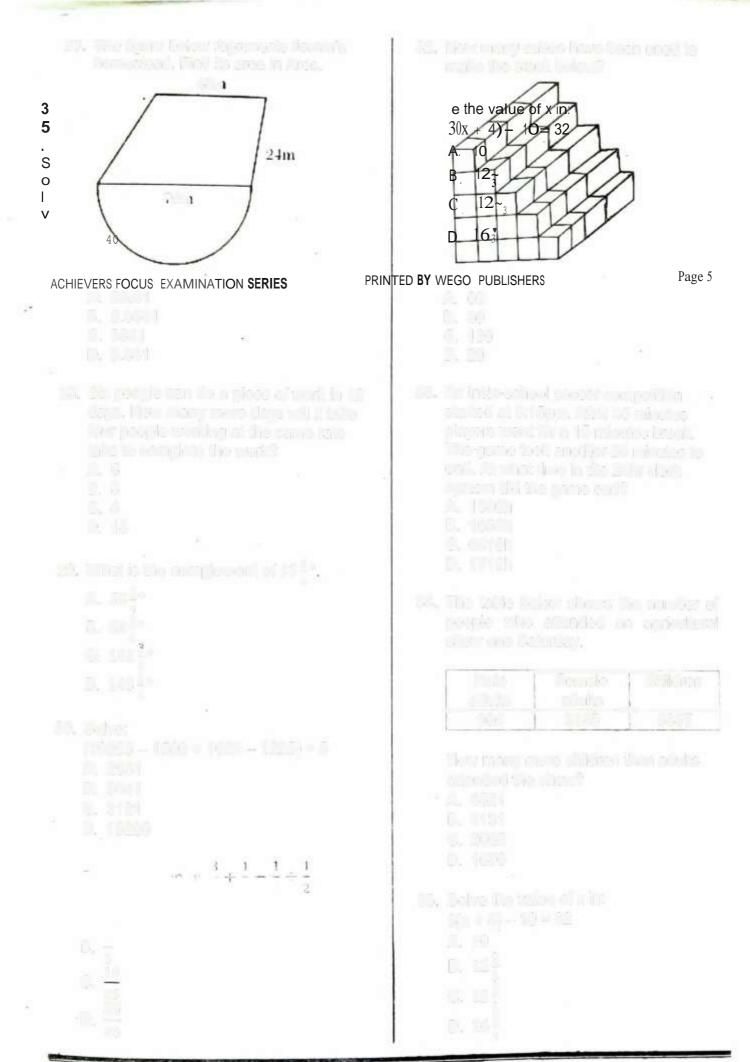
- A. 60
- B. 40
- C. 100
- D. 20
- 33. An inter-school soccer competition started at 3:15pm. After 45 minutes players went for a 15 minutes break. The game took another 55 minutes to end. At what time in the 24hr clock system did the game end?
  - A. 1630h
  - B. 1655h
  - C. 0510h
  - D. 1710h
- 34. The table below shows the number of people who attended an agricultural show one Saturday.  $\Lambda$  /

			Vn
	Male	Female	Children
t-	adults	adults	
	986	3145	5807

How many more children than adults attended the show?

- A. 4821
- 8. 4131
- C. 2662
- 0. 1676

8. -



**36.** A plot of land is in the shape of a semicircle of diameter of the plot in metres.

- A. 72m
- B. 44m
- C. 88m
- D**.1**12m
- **37.** What is the value of: 4a + k?
  - 2a fa=2, k=5-a
  - A. 3.25
  - B. 6.25
  - C. 16.25
  - D. 4.75
- **38.** Below are properties of a certain quadrilateral.
  - (i) Diagonals are equal
  - (ii) Two pairs of parallel sides
  - (iii) All sides are equal
  - (iv) Diagonals bisect at 90°

Which quadrilateral has been described above?

- A. Rhombus
- B. Square
- C. Rectangle
- D. Parallelogram
- **39.** The diagram below shows a vegetable garden in the shape of an isosceles triangle. Calculate the area of the garden.

А

3 2 5

- **40**. Which of the following is the correct order to write the fractions  $\frac{3}{4}, \frac{5}{6}, \frac{2}{5}, \frac{7}{10}$  from the largest to the smallest?
  - $A = \frac{5}{4} = \frac{3}{7} + \frac{7}{2}$   $= \frac{6}{4} + \frac{10}{5} = \frac{5}{6} + \frac{7}{10} + \frac{3}{4} + \frac{3}{5}$   $B = \frac{5}{6} + \frac{7}{10} + \frac{3}{4} + \frac{3}{5}$   $C = \frac{7}{10} + \frac{5}{6} + \frac{2}{5} + \frac{3}{10} + \frac{3}{4} + \frac{5}{6}$   $D = \frac{2}{5} + \frac{7}{10} + \frac{3}{4} + \frac{5}{6}$
- **41.** Express the ratio 3:5 as a percentage.
  - A. 37.5%
  - B. 60%
  - C. 62.5%
  - D. 166<sup>•</sup><sub>3</sub>%
- **42.** The figure below shows a square of side 40cm. A circle is drawn touching all its sides. Calculate the area of the shaded parts. (1=3.14)

 $\mathbf{O}$ um

Ucn

A. 344cm<sup>2</sup>
B. 1600cm<sup>2</sup>
C. 1256cm? D. 160cm<sup>2</sup>

 $m^2$ 

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its new temperature after a drop of

6.**9€**. A. 30.6°C

8. 43.4C C. 29.6C

D. 42.4°C

4

3

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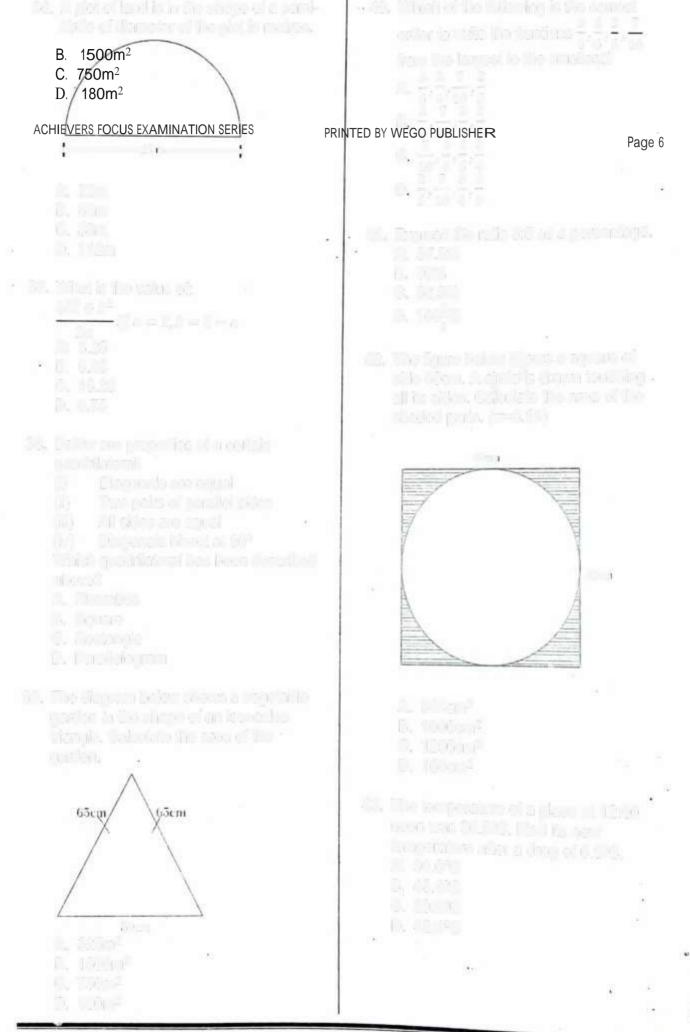
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50cm

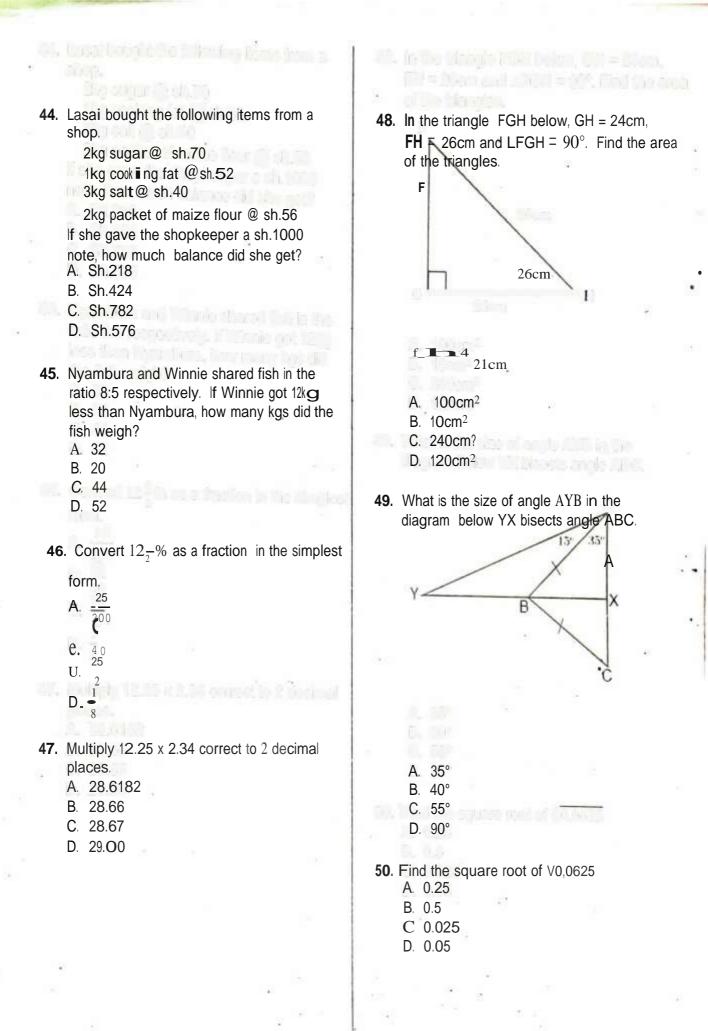
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