ST NEREAH DAY AND BOARDING PRIMARY SCHOOL

PRIMARY SEVEN KAMCEB CHECK II EXAMINATION
2024
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Candidate's Name: ………………………………………………………………………………………………

Candidate's Signature: ……………………………………………………………………………………………

School Name: …………………………………………………………………………………………………….

Read the following instructions carefully:

1. This paper has two sections: A and B. Section A has 20 questions and section B has 12 questions.

2. Answer all the questions. All the working for both sections A and B must be shown in the spaces provided.

3. All the working must be done using a blue or black ball point pen or ink. Any work done in pencils other than graphs and diagrams will not be marked.

4. No calculators are allowed in the examination room.

5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.

6. Do not fill anything in the table indicated: "**for examiners' use only**" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN. NO	MARKS	EXR'S NO.
1-5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 -32		
TOTAL		

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SECTION A: (40 MARKS)

1. Multiply:
$$\begin{array}{r} 7\ \ 0 \\ \underline{\times\ \ \ 2} \\ \underline{} \end{array}$$

2. Express XVII in Hindu Arabic numerals.

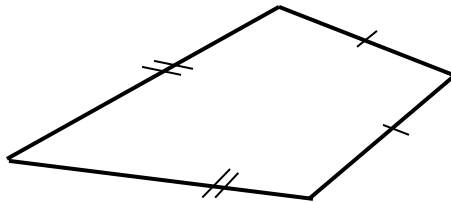3. Write 'Four thousand six' in figures.

4. Convert 3.2kg into grams.

5. Given that A = {x,y,z}, how many subsets does set A have?

6. Simplify: 7m + 3x - 2m + x

7. Reduce 1200kg in the ratio of 2:3.

8. Work out the square root of 36.

9. How many lines of folding symmetry has the figure below?

10. $\frac{4}{9}$The probability of picking at random a girl to be the class prefect is   .

    If a class has 45 children, find the number of girls in the class.

11. Solve for k;   4 + k = 39.

12. A trader made a profit of sh. 4000 after selling a handbag for
    sh. 20,000. How much was the trader's buying price?

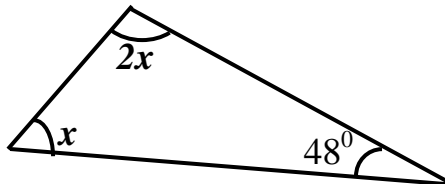13. Write the afternoon time shown on the clock face below.

_____
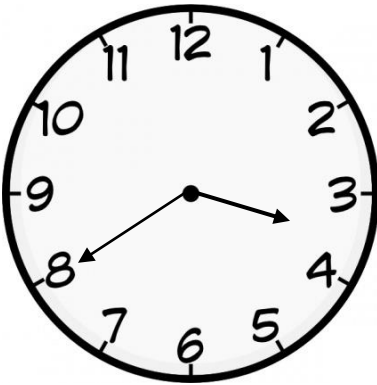
14. Find the number expanded to give; $(4 \times 10^3) + (6 \times 10^2) + (9 \times 10^0)$

15. Write the integer 8 steps on the right of -5.

16. Given that represents 120 books, draw pictures for 600 books.
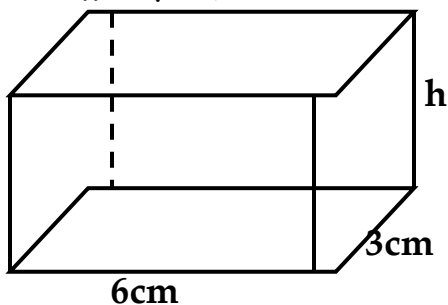
17. In the figure below, workout the value of x in degrees.

18. $\frac{4}{11}$ Express   as a decimal number.

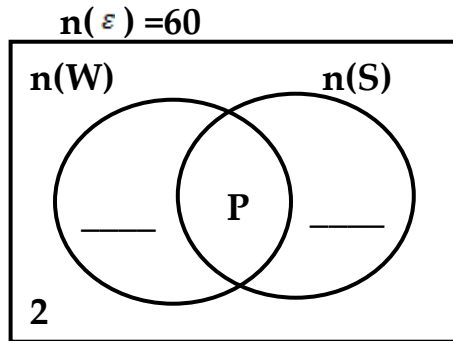19. Multiply 135 by 18.

20. The volume of the cuboid below is 180cm³.

Calculate its height.

h

3cm

6cm

SECTION B: (60 MARKS)

21. In a group of 60 guests, 40 guests had water(W), 28 took soda (S), P took both water and soda while 2 did not take any of the two drinks.

   a) Complete the venn diagram below. (2 marks)

   n(ε) =60

   n(W)   n(S)

   P

   2

   (b) Find the value of P.   (2 marks)

   (c) How many guests did not take soda? (1 mark)

22. A sum of sh. 24,000 was shared among Mary, Samuel and Patrick in the ratio of 3:7:2 respectively.

   (a) Find the amount got by each.   (4 marks)

(b) How much more did Samuel get than Mary?   (1 mark)

23. Use the Venn diagram below and answer the questions that follow.

Fx: 5_1, intersection: 2_1, 3_1, F36: 3_2, y
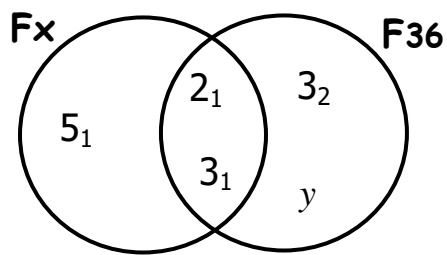
(a) Find the value of x   (2 marks)

(b) Work out the value of y.   (2 marks)

(c) Find the;

    (i) G.C.F of X and 36.   (1 mark)

    (ii) LCM of X and 36.   (1 mark)

24. (a) Solve for t;

t - 11 = 29   (1 mark)

(b) If x = 7, p = 9, find the value of

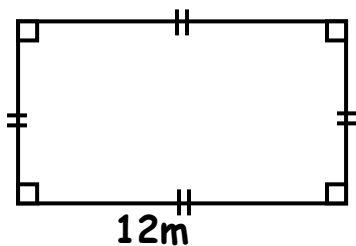(i)   2(p + x)   (2 marks)

(ii) $X^2 - P$ (2 marks)

25. The perimeter of the rectangle below is 42m and its length is 9m.

12m

(a) Find its width.   (3marks)

(b) Work out its area.   (2 marks)

26. Two bells of lower and upper primary ring at intervals of 30 minutes and 40 minutes respectively.

    (a) After how many minutes do the two bells ring together? (3 marks)

    (b) If the two bells rang together for the second time at 10:30am, when was the first rang?   (2 marks)

27. A motorist left town X for town Y at 70km/h for 2 hours. He continued to town Z for another ½ an hour using the same speed.

    (a) Work out the total distance from town X to town Z.

                                                        (3marks)

    (b) If the motorist left town X at 7:40a.m, find the time he reached town Z.   (2 marks)

28. Using a pencil, a ruler and a pair of compasses only, construct triangle DPT such that line DP = 7cm, angle TDP is 90^0 and line DT = 6cm.

(4 marks)

(b) Measure length PT. (1 marks)

29. In a school, the fraction of girls is $\frac{3}{8}$ and the rest are boys.

(a) Find the fraction of boys in the school. (2 marks)

(b) If there are 340 more boys than girls in a school, find the total population of children in the school. (2 marks)

(c) $\frac{1}{5}$If   of the girls in the school are in P.7, find the number of girls in P.7

class.   (1 mark)

30. The table below shows the marks got by Andrew in a certain test.

English	Maths	Science	S.ST
90	95	90	77

(a) Find the range in his marks.   (2marks)

(b) Find the modal mark   (1 mark)

(c) Work out Andrew's average mark.   (2marks)

31. (a) Work out 7 – 10 + 5.   (2 marks)

(b) There are 12 biscuits in a packet. If 40 packets are packed in a box,

find the total number of biscuits that will be packed in 3 boxes.

32. (a) Complete the table

Item	Quantity	Unit cost	Amount
Sugar	3kg	Sh. 4000	Shs. _____
Salt	_____kg	Sh. 2000	shs. 1000
Cooking Oil	1 ¼ litre	Sh. _____	Sh. 10,000
		Total expenditure	Sh. _____

(b) If a customer remained with sh. 7000, find the amount of money he had at first.

(1 marks)

****************** END ******************