CREATIVE EDUCATIONAL SERVICES
BEGINNING OF TERM I EXAMINATIONS 2023
PRIMARY SEVEN
MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

Name: _____

School: _____

District: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.	EXAMINER'S USE ONLY

Read the instructions carefully.
1. This paper has two sections: A and B.
2. Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
3. All answers must be written using a blue and black ball – point pen or ink. Diagrams should be drawn in pencil.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot be read may lead to loss of marks.
6. Do not fill anything in the box indicated "For Examiner's Use Only" and those inside the questions paper.

Qn. No.	Marks	Final Mark
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		
		Turn Over

1.   Work out: 1   2
                   x   3
                   _____

2.   Write in figures: "Twenty thousand four hundred five."

3.   Simplify: $^-7$ - $^-10$

4.   If a = 3, b = 5, find the value of ab − 2b.

5.   Given that set P = {0, 2, 4, 6}, Q = {1, 2, 3, 5, 7}. Find n(P U Q).

6.   Work out: $1 \frac{3}{4} \div 2 \frac{5}{8}$

7.   Find the next number in the sequence 0, 1, 4, 5, 8, 9, _____

8.   Lala bought a phone at sh. 58000. She later sold it for sh. 65000. Calculate the profit.

9.   Change 2500 grammes to kilograms.

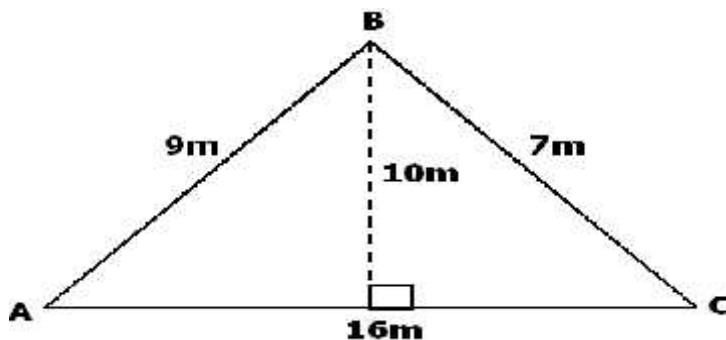10. What morning time is shown on the clock face below?
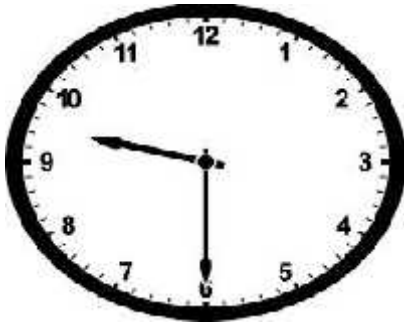
11. How many lines of folding symmetry has the figure below? (Show them)
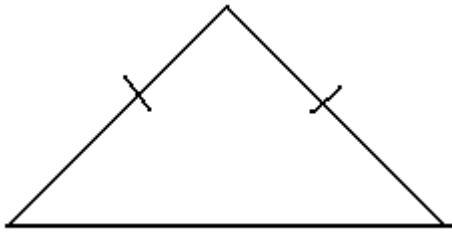
12. Convert 17_{ten} to base two.

13. A 40-minute lesson that ended 10:10 a.m. When did it start?

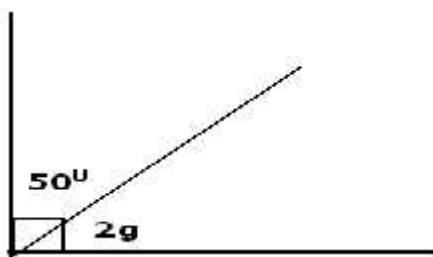14. Calculate the area of the figure below.

15. Write ¾ to $^9/_{10}$ as a ratio.

16. Kato is 13 years old while Bala is 8 years old. Use tally marks to represent their ages in the table below:

Name	Age
Kato	
Bala	

17. Simplify: 7x + 8y – 4x + 2y

18. Use distributive property to work out: (77 x 5) + (23 x 5)

19. Find the GCF of 18 and 24.

20. Find the value of g.

Section B (60 marks)

21. Musa went to the supermarket and purchased the following items:
    2kg of meat at sh. 8000 per kg
    500g of salt at sh.1,800 per Kg.
    2 litre s of milk at sh.4600
(a) What was Musa's total expenditure?   (4 marks)

(b)   After purchasing the above items, Musa remained with sh. 8500. How much money had she before purchasing the items?   (1 mark)

22(a) Study the figure below and find the value of g.   (3 marks)
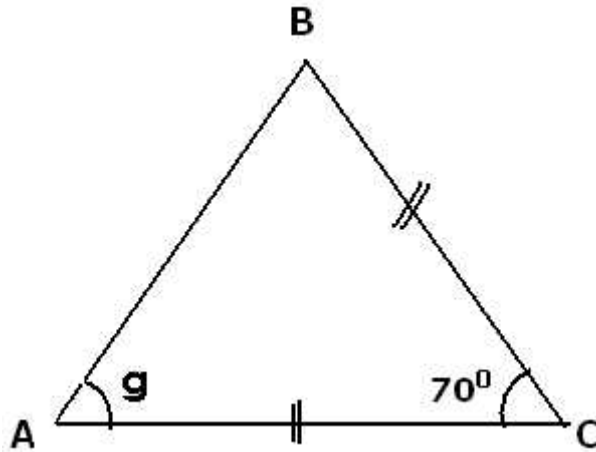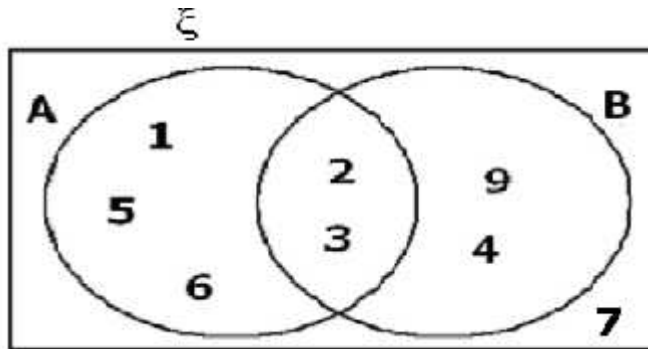

(b)   What is the size of angle x?   (2 marks)
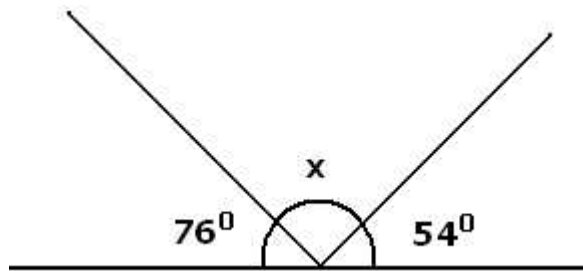
23.   Study the number line below and answer the questions that follow.
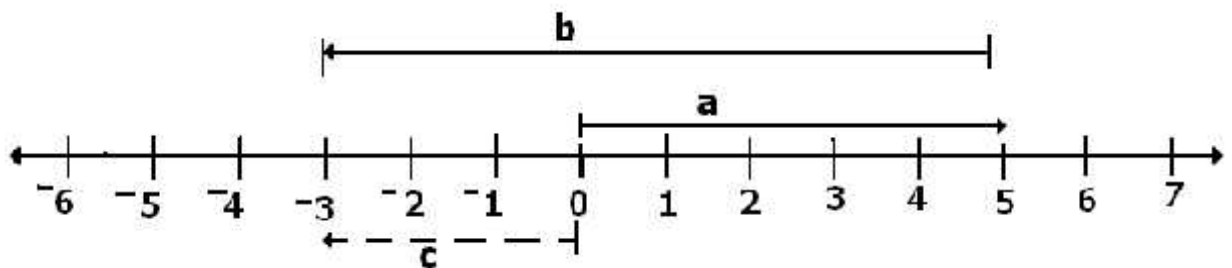
(a).   Name the integer represented by each arrow: (1 mark each)

(i)   a: _____   (ii)   b: _____   (iii)   c: _____

(b)   Write the mathematical statement represented above.   (1 mark)

24. Study the Venn diagram below and use it to answer the questions about it.

(a) List the members of: (1 mark each)

(i) A: (ii) B: (iii) ξ:

(b) Find $n(A \cap B)'$ (2 marks)1

25. Solve the following equations:

(i) $8(y + 1) + 5(3 - y) = 35$. (3 marks)

(ii) $18 - 2X = 4$ (2 marks)

26. Peter left home driving at 80km per hour and reached town after $1\frac{1}{2}$ hours.

(a) How far is the town from Peter's home? (2 marks)

(b) If Peter took 2 hours to drive back home. At what speed was he driving?

(2 marks)

6

27. Study the figure below and use it to answer the following questions.

13cm | (2n + 3)cm

(n +10)cm
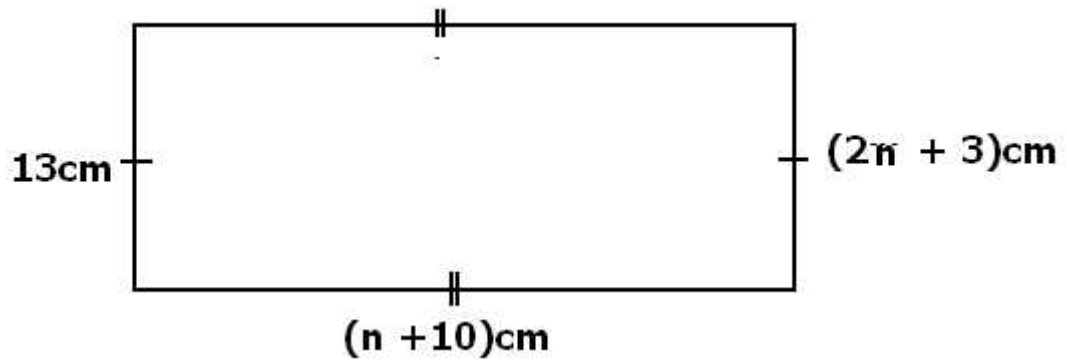
(a) Work out the value of n. (2 marks)

(b) Find the length of the rectangle. (1 marks)

(c) Calculate its area. (2 marks)

28. The graph below shows the number of cars that were parked in Mukasa's bond in a week.

Monday	🚗 🚗 🚗 🚗 🚗
Tuesday	🚗 🚗 🚗 🚗 🚗
Wednesday	🚗 🚗 🚗
Thursday	🚗 🚗 🚗 🚗 🚗 🚗 🚗
Friday	🚗 🚗 🚗

KEY: 🚗 = 10 cars

(a)   How many cars were in the bond on Tuesday?   (2 marks)

(b)   On which days were the same number of cars parked?   (2 marks)

(c)   Find the total number of cars that were parked in the bond that week. (2 marks)

29(a)   Using a pair of compasses, a ruler and a pencil only, construct a triangle ABC where
        AB = 7cm, AC = BC = 6cm.   (4 marks)

(b)   Measure angle ABC = _____.   (1 mark)

30.   Given that set A = {0, 2, 5, 7}.
(a)   Find the largest number you can form using the digits in set A.   (1 mark)

(b)   What is the smallest number that you can form from the digits above?   (1 mark)

(c)   Find the difference between the largest and the smallest number obtained.
                                                                      (2 marks)

31. In a class of 480 students, ¼ of them are females and the rest are males.

(a) Find the number of females in the class. (2 marks)

(b) How many males are in the class? (2 marks)

(c) How many more males than females are in the class? (2 marks)

32. The table below shows marks scored by pupils in a test.

Marks scored	55	60	85	70	65	90
Number of pupils	2	1	1	3	1	2

(a) How many pupils did the test? (2 marks)

(b) What was the modal mark? (1 mark)

(c) Calculate the mean. (3 marks)