

RAAYAT ISLAMIC PRIMARY SCHOOL

INTERNAL MOCK EXAMINATION 2023

PRIMARY SEVEN MATHEMATICS



Time allowed: **2 hours 30 minutes**

Index Number:

Random Number						Personal Number		

Candidate's Name: _____

Candidate's Signature: _____

School Random Number: _____

District ID Number: _____

Read and follow these instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section A has **20** questions and section B has **12** questions.
3. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
4. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A (40marks)

1. Workout

$$\begin{array}{r} 2 \quad 3 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$$

2. Write 49094 in words.

3. Solve for k: $-4 + \frac{3p}{2} = 1$

4. Simplify.
 $2p - 4k + 5p + 7k$

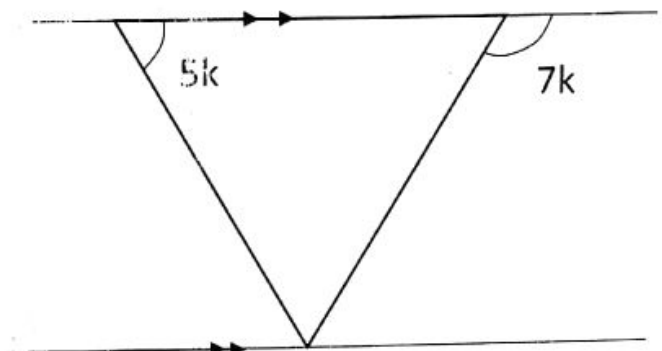
5. Express $12\frac{1}{2}\%$ as a fraction in its simplest form.

6. Simplify. $-8 - +2$

7. Write 149 in Roman numerals.


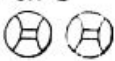
8. Round off 842.97 to the nearest whole number.

9. Find the value of **k**.



10. Simplify $1\frac{1}{2} - \frac{6}{9}$

11. Using repeated addition, workout 5×2 .

12. Given that  represent 42 balls, how many balls are represented by 

13. Workout
 $6 \div 8 =$ _____ (mode 5)

14. Express 200g as a percentage of 1kg.

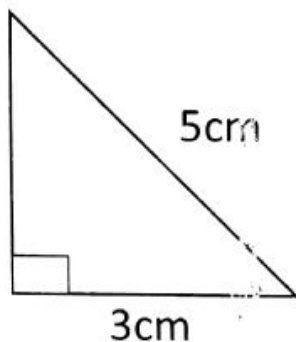
15. A business man bought a dozen of fountain pens at Shs 10,800. If he later sold each fountain pen at Shs 1,100. Calculate his profit.

16. Find the next number in the sequence.

$$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \text{---}$$

17. What is $\frac{2}{3}$ of 36 oranges?

18. The figure below shows a right-angled triangle. Find the total distance around the figure.



19. Arrange -9°C , $+4^{\circ}\text{C}$, -5°C , -2°C and $+3^{\circ}\text{C}$ in descending order.

20. Given that;
 $E = \{a, b, c, d, e, f\}$ and $P = \{a, e, i, o, u\}$
Find the number of $n(P)$

SECTION B (60 marks)

21. Workout.

(3mks)

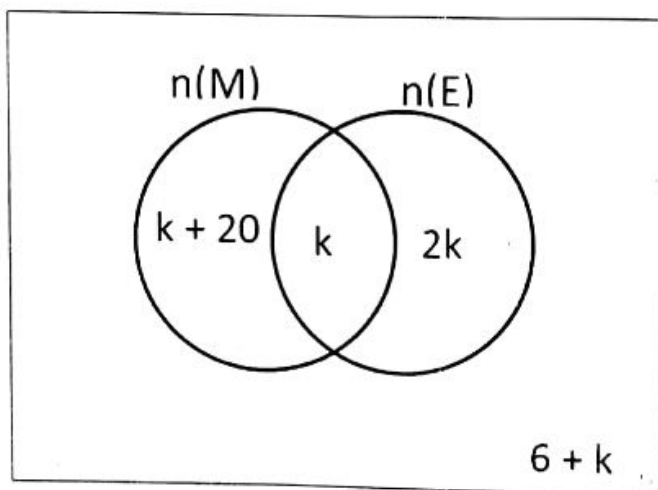
a) $\frac{0.48+0.02}{0.3-0.05}$

b) Simplify.

(2mks)

$$\frac{3}{4} - \frac{1}{2} + \frac{2}{3}$$

22. The diagram below shows the number of pupils who like Mathematics (M) and English (E)



a) If the number of pupils who do not like Mathematics is 21, find the value of k . (2mks)

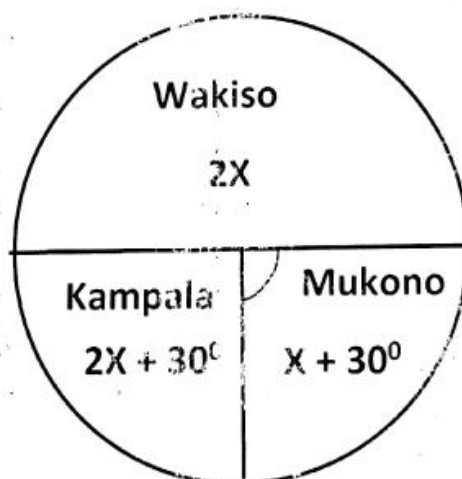
b) Find the number of pupils who like inly one subject.

(2mks)

c) Workout the probability of picking a pupil who like English.

(1mk)

23. The pie chart below shows the number of school dropouts in three districts during Covid-19 2020. Study it and answer the questions that follow.



a) Given that 5520 children dropped out of the school in Mukono. Find the value of x

(2mks)

b) How many children dropped out of school in Wakiso and Kampala in 2020? (4mks)

24. The table below shows how Peter spent his Shs 18,000 pocket money. Study it carefully and complete it. (4mks)

Item	Quantity	Cost	Amount
Sugar	2kg	Shs	Shs 7,000
Cooking oil	_____ ltrs	Shs 3,000	Shs 8,000
Soap	1/2 bar	Shs	Shs

25. Using a ruler, a pencil and a pair of compasses only, construct a rhombus ABCD such that $AB = 6\text{cm}$, $\angle B = 120^\circ$ (4mks)

b) measure the diagonal AC.

(1mk)

26. The interior angle of a regular polygon is thrice its exterior angle.
a) Name the polygon. (3mks)

b) Find the interior angle sum.

(2mks)

27. Kato drove his car at 40km/hr and 3hours between school K and school Q.

a) Find the distance between school K and school Q.

(2mks)

b) How long would Kato take if he drove at 60km/hrs on the same journey?

(2mks)

28. The sum of the three consecutive odd number is 39. Find their range.

(4mks)

29. A man bought 4 trays of eggs at Shs 10,000 each. Some eggs got broken and he sold the remaining eggs at Shs 500 each making a profit of $12\frac{1}{2}\%$.

a) How much profit did the man make?

(4mks)

b) How many eggs got spoilt?

(2mks)

30. Bonny is 4 times as old as Jasper. In 10year time, Bonny will be twice as old as Jasper.

a) How old is Bonny?

(3mks)

b) Simplify.

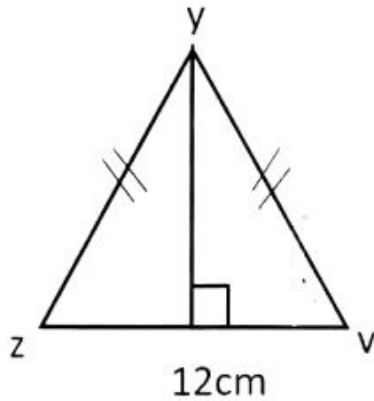
$$5n - 2(3 - n)$$

(2mks)

31. The area of a triangle below is 60cm^2 .

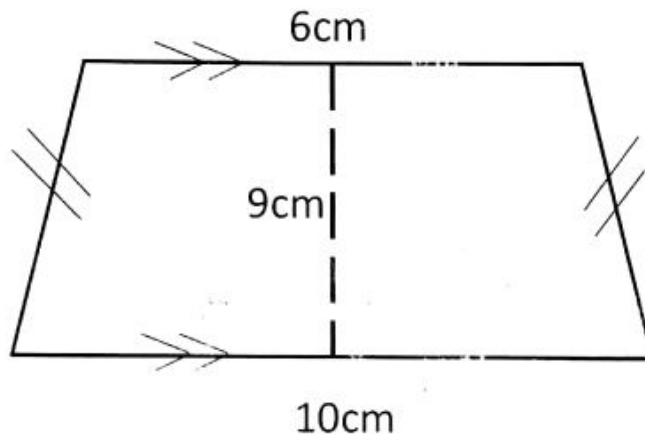
(3mks)

a) Find the height.



b) Workout the area of the figure below.

(2mks)



32. In Kiruddu hospital, Grace, Kato and Waswa are reported for testing for Covid – 19. If they were supposed to appear in Kiruddu hospital in different days. Their visits scheduled in an interval of 3days, 4days and 5days respectively.

a) If they are supposed to report on Tuesday, on which day will they report again.

(2mks)

b) After how many times will Waswa have reported at Kiruddu hospital alone before meeting his fellow in the hospital for the second time?

(1mk)

c) Complete the table below in base 5.

(3mks)

+	2	3
2	4	_____
3	_____	_____