

## RAPHA EXAMINATIONS BOARD

" Education is an investment"

#### P.5 STANDARD EXAMINATIONS SET 16

## **MATHEMATICS**

Time allowed: 2 Hours 30 Minutes

Pupil's	Name:
Pupil's S	Signature:
School	Name:

#### Read the following instructions carefully:

- 1. This paper has **two** sections: **A** and **B**.
- 2.Section **A** has **20** questions (**40 marks**)
- 3. Section **B** has **12** questions (**60 marks**)
- 4. Answer all questions . all answers to both sections **A** and **B must** be written in the spaces provided.
- 5. All answers must be written using a blue or **black ball** point **pen** or ink. Diagrams should be drawn in a pencil.
- 6. **Unnecessary** changes in your work may lead to **loss** of marks.
- 7. Any handwriting that **cannot** be easily read may lead to **loss** of marks.
- " FOR EXAMINERS' USE ONLY" and

8.**Do not** fill anything in the table indicated: boxes inside the question paper.

BUZIGA: +256-778710993

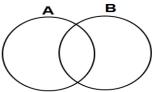
FOR EXAMINERS' USE ONLY				
Qn. No	MARKS	EXR'S No.		
1 – 10				
11 – 20				
21 – 22				
23 – 24				
25 – 26				
27 – 28				
29 – 30				
31 – 32				
TOTAL				

**TURN OVER** 

# SECTION: A (40 Marks).

1. Divide  $6 \div 2 =$ 

6. Shade A U B in the Venn diagram below.

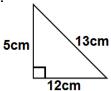


2. Solve y + 6 = 13.

7. Change 2.5kg to grammes.

3. Find the square of 9.

- 8. Write down the next two numbers in the sequence below; 1, 4, 9, 16, \_\_\_\_, \_\_\_\_
- 4. Calculate the area of the figure below.



9. 5 pens cost sh. 6,000/=, find the cost of 7 similar pens at the same rate.

5. Write 2011 in words.

10. Subtract 2 0 4 five - 1 1 3 five

- Arrange the following integers in 11. ascending order. - 6, 0, -4, -3, 4.
- James bought a cow at sh. 860,000 16. and sold it at shs. 900,000. Work out his profit.

Wks

5

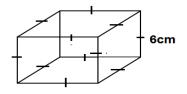
1

Days

4

5

12. Find the volume of the cube below.



Expand 27.392 using indices. 18.

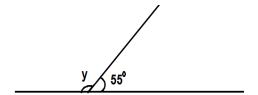
- Reduce to the lowest term 16. 13.
- 19. Mayanja is 16 years old. Kamya is 9 years older than Mayanja. How old is Kamya. (1mk)

a)

17.

Work out

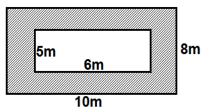
Find the value of the angle marked y 14. in the figure below.



(1mk) b) Find their total age.

15. Round off 17.673 to the nearest tenths.

- 20. Using a sharp pencil, a ruler and a pair of compasses only, construct an angle of 60° in the space provided below.
- 22. Study the figure below and answer the questions that follow.



a) Find the area of the outer rectangle. (2mks)

## **SECTION: B (60 Marks)**

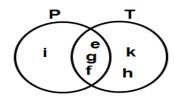
- 21. Given that a=3, b=4 and c=5. Find the value of;
- i) abc (1mk)
- b) Find the area of the inner rectangle. (2mks)

- ii) (a + c) b (2mks)
- c) Calculate the area of the shaded part. (1mk)

iii)  $\underline{bc + 4}$  (2mks)

- 23. Namatovu scored the following marks in a series of Maths tests. 40, 70, 20, 60 and 60.
- a) What was the range of her scores? (1mk)
- b) Find the median mark. (1mk)

- c) Calculate her average score. (2mk)
- 24. Study the Venn diagram below and answer the questions that follow.

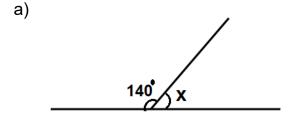


a) Find (i) Set  $(P \cap T)$  (1mk)

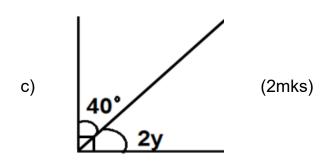
ii) Set (T - P) (1mk)

- iii) n(PUT) (2mks)
- b) How many subsets can be formed from Set T only? (1mk)

25. Calculate the size of the unknown angles in each of the figures below. (2mks)



b) (2mks)

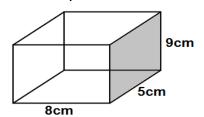


26. Richard went to the market and bought the items as shown below.

Item	Quality	Unit cost	Total
			cost
Rice	2kg	2000/= per kg	sh
Soap	3 bars	@ bar	sh.3600
Salt	kg	1000 per kg	sh. 2000
milk	2litres	per litre	sh. 2400
Total			

Complete the shopping bill above. (Show the working) (5mks)

28. The figure below is a rectangular prism. Study it carefully and use it to answer the questions that follow.



a) How many vertices does it have? (1mk)

b) Find its volume? (1mk)

c)	Calculate the area o	of the shaded
•	part.	(2mks)

# 30a) Use >, < or = to complete the following correctly.

- i) -4\_\_\_\_\_0 (1mk)
- ii) 3kg \_\_\_\_\_ 3500g (1mk)
- b) Work out:

i) 
$$^{-}4 + ^{-}2 =$$
 (1mk)

a) Find the fraction of teachers that teach the lower school. (2mks)

ii) 
$$+3 + -5 =$$
 (1mk)

31. Find the smaller angle between South West and North. (2mks)

- b) If the Head teacher gave 2 pens to each teacher in the upper school, what was the total number of pens given out? (3mks)
- b) Namuli was facing East. She turned anti-clock wise to face North West. Through what angle did she turn?

  (2mks)

c)	Construct an equilateral triangle ABC of sides 5cm each.	(2mks)
32a)	Write down multiples of 7 less than 30.	(1mk)
b)	Find the GCF of 8 and 12.	(2mk)
c)	Work out the square root of 36.	(2mks)