

1.

Divide;

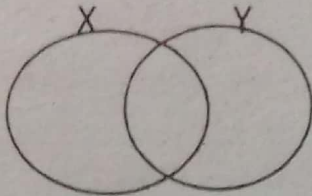
$$3 \overline{) 66}$$

2.

Add  $3 + 2 = \underline{\hspace{2cm}}$  (mod 5) using a dial.

3.

Shade X - Y in the venn diagram below.



4.

Express  $4\text{m}^2$  to square centimetres.

5.

Complete sensibly.

47 = 4 tens 7 ones

6.

Round off 26.481 to the nearest tenths.

7.

The average age of 4 girls is 13 years.  
What is their total age?

8.

Express  $6\frac{1}{4}\%$  as a fraction in its simplest form.

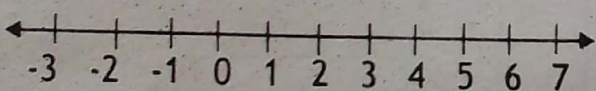
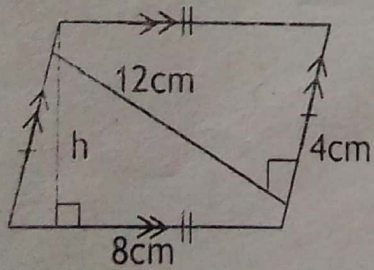
9.

Construct an angle of  $45^\circ$  in the space below.

10.

Set G has 15 proper subsets. How many elements are in set G?



11.	Add the next two numbers in the sequence below.  6, 10, 7, 11, 8, 12, ____, ____	12.	Express 1145hrs in 12 hour clock.
13.	Fortunate an electronic dealer bought a TV set at sh. 300,000. If she sold it at sh. 335000, find her profit.	14.	Our Maths teacher was born in 1994. Express the year he was born in Roman numerals.
15.	What angle is $\frac{2}{3}$ of its complement?	16.	Express 0.00621 in scientific notation.
17.	Subtract $+2 - +5$ using a number line.  	18.	Solve; $P + 5 = 12$
19.	Find the value of $h$ in the figure below.  	20.	The LCM of two numbers $a$ and $b$ is 45 and their GFC is 3. If $a$ is 9, find the value of $b$ .



**SECTION .B. (60 Marks)**

21. Given the number 47016;

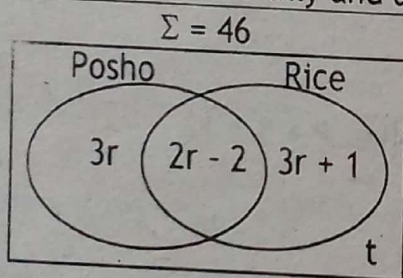
(a) Expand the number above using place values.

(b)

Write the above number in words.

(c) Add the value of 6 to the value of 7 in the above number.

22. The venn diagram below shows number of pupils in P.7 class who like Posho and Rice. Study it carefully and answer questions that follow. (06 Marks)



(a)

If 23 pupils like posho, find the value of  $r$ .

(b) Find the value of  $t$ .

(c)

How many pupils do not like posho at all?

23. The bill table below shows Gerald's shopping at the beginning of the term. Complete it correctly.

Items	Quantity	Unit cost	Amount
Books	6 books	Sh. 4000 per book	Sh. _____
Pens	_____	Sh. 600 per pen	Sh. 3000
Bag	1 bag	Sh. 40000 a bag	Sh. _____
Sugar	2 kg	Sh. _____ per kg	Sh. 7,800
TOTAL AMOUNT			Sh. _____

(05 Marks)

24. (a) Work out  $(74 \times 10) + (26 \times 10)$  using distributive property.

(b)

Add; 
$$\begin{array}{r} 1011_{\text{two}} \\ + 111_{\text{two}} \\ \hline \end{array}$$

(04 Marks)

25. The cost of a ruler is three times the cost of a book. A book costs half of the cost of a rubber. Joan bought a ruler, 3 books and 2 rubbers. If she paid shs. 5000 for all the items, find the cost of each item.

(06 Marks)



26. Three taps A, B and C are connected to a tank. Tap A can fill the tank in 10 minutes, tap B fills the same tank in 12 minutes while tap C empties the tank in 20 minutes. How long will all taps take to fill the tank if they are all opened at the same time?

(05 Marks)

27. A cyclist left home to town A at a speed of 60km/hr for 3 hours. He rested for 1 hour and continued to town B 120km from town A.

- |     |                                    |     |  |
|-----|------------------------------------|-----|--|
| (a) | How far is it from home to town B? | (b) | If it took him 2 hours to travel from town A to town B, calculate the average speed for the whole journey. |
|-----|------------------------------------|-----|--|

(05 Marks)

- |     |   |     |                               |
|-----|---|-----|-------------------------------|
| 28. | (a) Today is Tuesday 5 <sup>th</sup> March, what day of the week will it be on 28 <sup>th</sup> May of the same year? | (b) | Solve; $4 + x = 2$ (finite 5) |
|-----|---|-----|-------------------------------|

(05 Marks)

29. Mary deposited a certain amount of money in a bank that offers an interest of 10% p.a for  $1\frac{1}{2}$  years. If she found shs. 9000 interest on her account;

(a) How much did she deposit?

(b)

Find the total amount of money she found on her account.

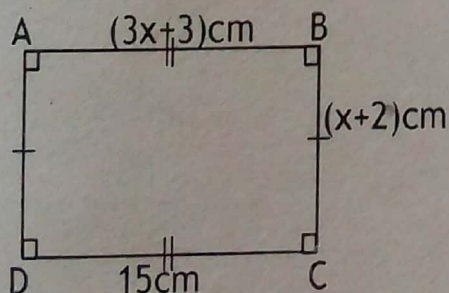
(04 Marks)

30. (a) Using a sharp pencil, a ruler and a pair of compasses only, construct triangle ABC in which line AB = 6cm, line AC = 5cm and angle BAC =  $120^\circ$ .

(b) Measure angle ABC.

(05 Marks)

31. Study the figure below and answer questions that follow.



(a)

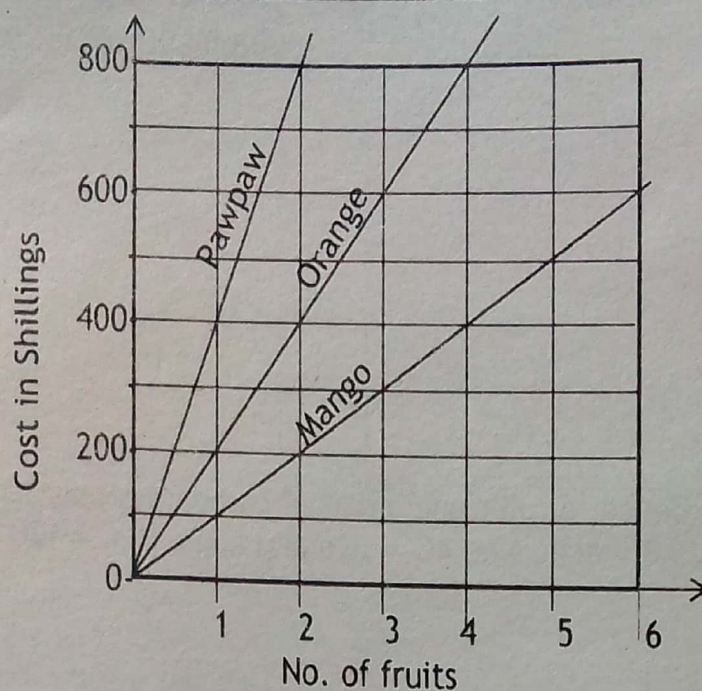
Find the value of x.

(b) Calculate the area of the figure ABCD.

(05 Marks)



32. The graph below shows the cost of Oranges, Mangoes and Pawpaws. Use it to answer questions that follow.



- (a) What is the cost of one mango?
- (b) What is the most expensive item?
- (c) Find the total cost of 2 Mangoes, 2 Oranges and 2 Pawpaws.

END

(04 Marks)





# BROAD EXAMINATIONS®

## P.7 MATHEMATICS EXAMINATION TRIAL SET II TERM II 2023

Time allowed: 2 hours 30 minutes.

Random No.					Personal No.		

Pupil's Name: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. This paper is made up of 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 in both sections A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINER'S  
USE ONLY

PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

Teacher's comment to the learner

Approved by:

Team Head Mathematics Dept.