THE PRIME EXAMINATIONS 2022
PRIMARY SIX MID TERM III
MATHEMATICS (*Abridged Curriculum*)

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Time allowed 2 hours 30 minutes

Name:...

Signature:...

School:...

District Name:..

READ THE FOLLOWING 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** the working for both sections A and B must be shown in the spaces provided.

4. All working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than 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 those boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED:
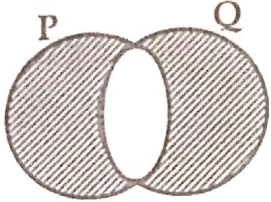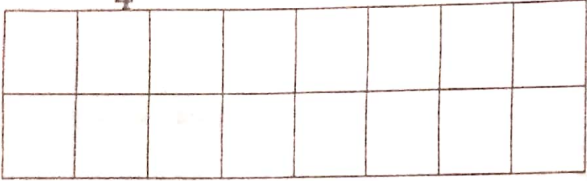
Consultant
Mathematics Department (PEC)

CamScanner

Section A. (40 Marks)

1 Workout 8×0

2 Find the value of 4 in the number 14096.

3 Describe the shaded part in the Venn diagram below.

4 Find the next number in the sequence below.

1, 7, 5, 11, 9, _____

5 Shade $\frac{3}{4}$ of the diagram below.

6 Convert 350cm to m.

7 Write 39046 in words.

8 The average age of **eignt boys** is **13 years**. Find their total age.

9 With the help of a ruler, a sharp pencil and a protractor only, draw an angle of 90^0 in the space below.

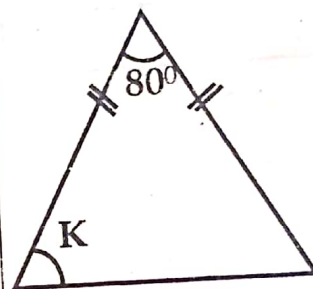| 10	Write a mathematical statement represented on the number line below.
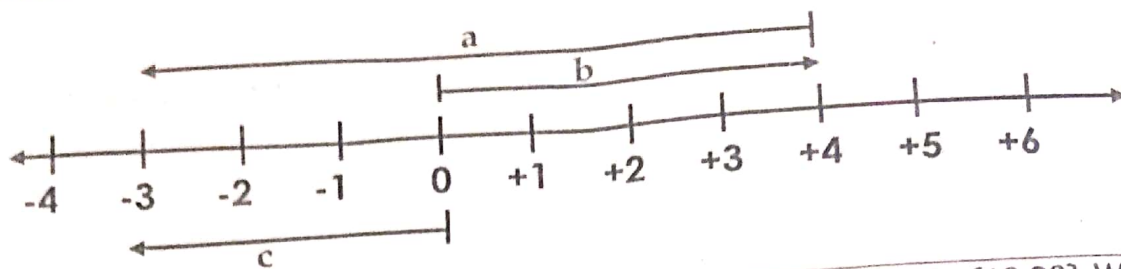
11	Work out the square root of $1\frac{11}{25}$	12	Given that set K= {10,20}. Write down all the subjects in set K.

13	A pupil used a half litre cups to fill a big bucket of **20 litres** with water. How many cups full of water filled the bucket?	14	Find the size of angle marked with letter K.

15	The worker's salary of sh.150,000 was increased by **20%**. Find the worker's new salary.	16	Find the circumference of a circle whose diameter is **14m**. (take π as $\frac{22}{7}$)

17	How many lines of folding symmetry has the figure below?	18	Workout: $17 - 19 + 24$

19	A lesson started at 8:20am and ended at 10:00am. How long did the lesson last?	20	Simplify: 13ab-8a+ ab+13a

Section B. (60 Marks)

21 In a class of 62 pupils, 34 like English (E), 39 like Mathematics (M), 3y like both subjects while 4 do not like any of the two subjects.

(a) Complete the venn diagram below. *(02 marks)*

n(£) = 62

n(E)   n(M)

3y

_____   _____

4
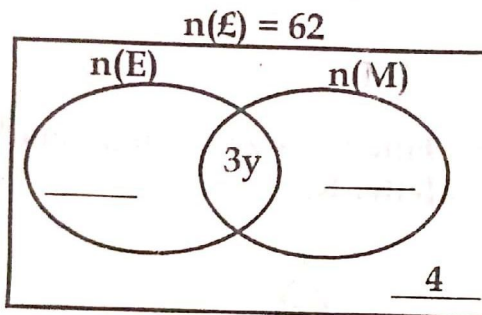
(b) Find the value of y. *(03marks)*

22 (a)Work out: *(02Marks)*

$$2\ 0\ 3_{\text{ five}}$$
$$+\ 4\ 2_{\text{ five}}$$
_____

(b) Solve : $23_t = 31_{\text{ four}}$

(03 marks)

23. Study the price list below and use it to answer the questions that follow.

> 3 exercise books cost sh. 6,000
> $\frac{1}{2}$ litre of cooking oil cost sh. 5,000
> 2kg packet of wheat flour cost sh. 8,000

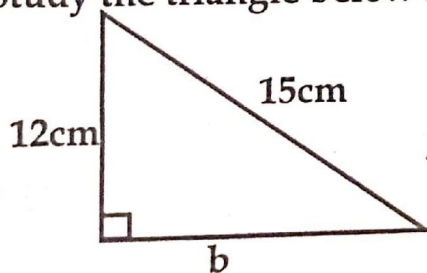(a) Find the cost five exercise books. (01 Mark)

(b) Find the cost of a litre of cooking oil. (02 Marks)

(c) Find the cost of 3 exercise books, $\frac{1}{2}$ litre of cooking oil and a 2 kg packet of wheat flour. (02 Marks)

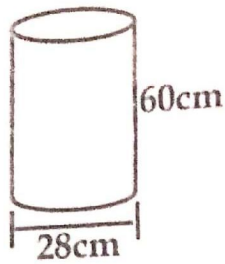**24** Study the triangle below and answer the questions that follow.

12cm · 15cm · b

(a) Find b. (03 marks)

(b) Workout the area of the triangle. (02 marks)

25 A cylindrical container below was to be filled with water.

60cm

28cm

(a) Find the volume of the container.($\pi = \dfrac{22}{7}$)   (03 Marks)

(b) Workout its capacity in litres.   (02 Marks)

26 Gladys, Paul and Allen shared **sh.240000** in the ratio **4:6:5** respectively.

(a) How much did each get?   (03 Marks)

(b) How much less did Gladys get than Paul?   (02 Marks)

27 A car took 3 hours to cover part of the journey at a speed of 60km/hr and another 2 hours at a speed of 80km/hr.

Calculate the average speed of the car for the whole journey.   (04 Marks)

28. The table below shows marks obtained by pupils of Primary six in a test.

Marks	50	70	40	80
Frequency	2	3	4	1

(a) How many pupils did the test? (01 Mark)

(b) Work out the median mark. (02 Marks)

(c) Find their average mark. (03 Marks)

29. Musa borrowed sh.600,000 from a village Sacco at a simple interest rate of 10% per year for $1\frac{1}{2}$ years.

(a) Workout the simple interest. (03Marks)

(b) Find the total amount Musa paid back to the Sacco. (02 Marks)

30 Using a ruler, a sharp pencil and a pair of compasses only, construct a regular hexagon in a circle of radius 4cm. (03 Marks)

(b) Find the perimeter of the hexagon.

(02 Marks)

31. Solve.
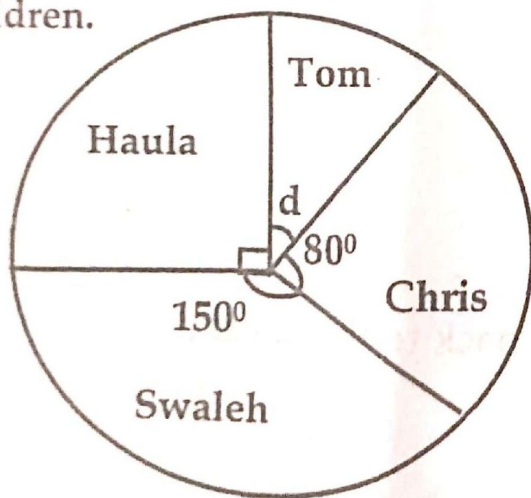
(02 Marks)

(a) K+7=13

(b) Hadijah is **4 years** younger than Hawa. Their total age is **30 years**. How old is Hadijah?

(03 Marks)

The pie-chart below shows how a parent divides some money amongst her four children.

(a) Find the value of d in degrees.

(02 Marks)

(b) Find the total amount of money they shared if Haula got **sh.120,000.**

(03marks)

(b) Find the perimeter of the hexagon.

(02 Marks)

31. Solve.
(a) K+7=13

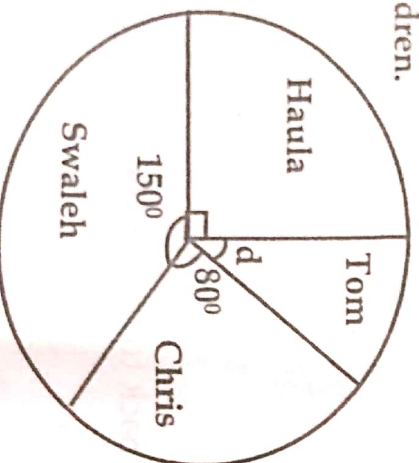(02 Marks)

(b)Hadijah is 4 years younger than Hawa. Their total age is 30 years. How old is Hadijah?

(03 Marks)

32 The pie-chart below shows how a parent divides some money amongst her four children.

(a)Find the value of d in degrees.

(02 Marks)

(b)Find the total amount of money they shared if Haula got sh.120,000.

(03marks)

FOR ACADEMIC EXCELLENCE. ALWA...