HILLSIDE PRIMARY SCHOOL EXAMINATIONS BOARD

PRIMARY SEVEN TERM TWO 2020

MOCK EXAMINATION SET 2

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Personal No.

EMIS No.

Candidate's	Name	Stream
Candidate's	Signature	
EMIS No		
District Nam	e	

Read the following instructions carefully

- **1.** This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and Section B has 12 questions.
- **2.** Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
- **3. All** working must be done using a **blue** or **black** ballpoint pen or fountain pen. Any work done in pencil other than graphs and diagrams will not be marked.
- **4.** No calculators are allowed in the examination room.
- **5.** Unnecessary changes in your work may lead to loss of marks.
- **6.** Any 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.

F	OR EXAMINE USE ONLY	_
Qn. No.	MARKS	EXR'S NO
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: (40 MARKS)

Answer all questions in this section.

Questions 1 to 20 carry two marks each.

1. Subtract: 1 2 9 – 1 9

2. Simplify: 8m - (2 + m).

3. Express CXCIV in Hindu Arabic numerals.

4. Given that set $A = \{2, 4, 5, 6, 9\}$ and $B = \{8, 7, 6, 4, 3\}$. Find n (A UB).

5. Work out: $2^3 + 3^0$

6. Using a ruler, pencil and a pair of compasses only, construct an angle of 30° .

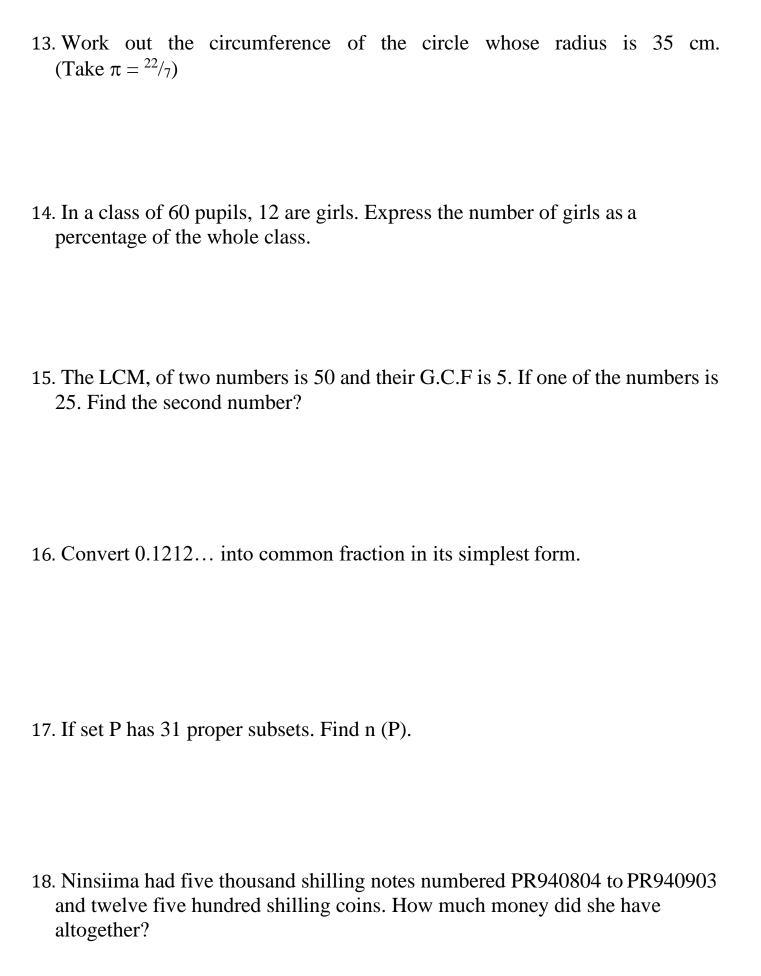
7. The probability that Wandera will pass this examination is ⁴. What is the probability that he will fail this examination?

8. Subtract: $\frac{1}{2} - \frac{1}{4}$

9. A science lesson started at 10: 30 a.m and lasted for 40 minutes. At what time did it end?

10. Work out: -7 - 6

11. Use distributive property to work out: $(20 \div 4) + (16 \div 4)$



19. The area of a triangular garden is 60m^2 . If the base of the garden is 12 metres, find the height.

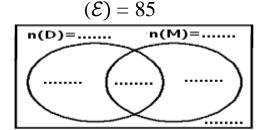
20. A trader borrowed sh. 800,000 from a bank for 6 months at a rate of 4% per month. Find the interest she paid after the sixth month.

SECTION B: (60 MARKS)

Answer all questions in this section.

Marks for each question are indicated in the brackets.

- 21. In a class of 85 pupils, 40 like music (M), 50 like drama (D), and 10 like both while *k* like neither music nor drama.
 - (a) Complete the Venn diagram below using the above information.



(b) Find the value of k.

(c) What is the probability of electing a pupil who likes one activity only?

22. Agnes went to a grocery store and bought the following items:

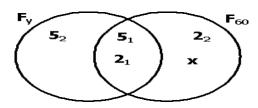
2½kg of sugar for sh. 4,600 per kilogram

500g salt for sh. 1,200 per kilogram

2 loaves of bread for sh. 4,300 per loaf

- 1½ litres of edible oil for sh. 9,000
- (a) Find the money she spent altogether.

- (b) If she went back home with sh. 55,000, how much money did she have at the beginning?
- 23. Use the Venn diagram below to answer the questions that follow.



- (a) Find the value of y
- (b) Find the value of x
- (c) Find the L.C.M of y and 60.

24	(2)	Solve 2($\mathbf{v} = 1$	$-v \pm 5$
<i>2</i> 4.	(a)	20116 7($\mathbf{A} - \mathbf{I}$	I-X+

(b) Mrs. Mandela bought two geometry books each at (x + 500) and one counter book at 3(x - 100). If she spend Sh. 5,700 altogether, what was the cost of each item?

25. The table below shows marks scored by pupils in a Mathematics test. Use it to answer the questions that follow:

Number of pupils	3	4	2	1
Marks scored	70	40	30	50

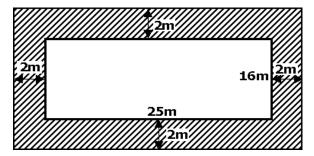
(a) How many pupils did the test?

(b) Find the median mark.

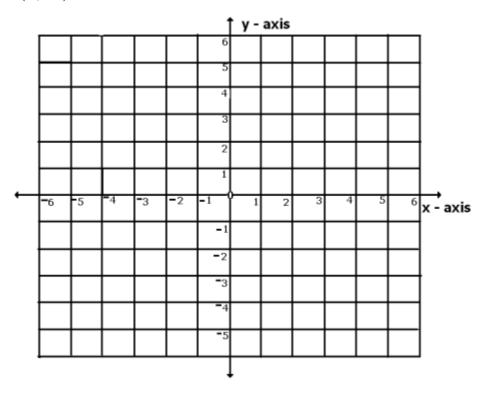
((c)	Find	the	mean	mark.
١,	\sim	1 1110	uic	mean	man.

26. A taxi driver drove at a speed of 90 km/hrs for 3 hours to cover part of the journey and the remaining journey was covered in 2 hours at a speed of 80 km/hr. Calculate the average speed of the taxi over the whole journey.

27. In the figure below, workout the area shaded.



28. Use the grid to plot the following ordered coordinates: P(2,2), $Q(^-2,2)$, $R(^-2,^-3)$, $S(2,^-3)$



b. Join P to Q, Q to R, R to S and S to P. Name the figure formed.

- 29. A car uses 60 litres of diesel to cover a distance of 320km.
- (a) How many litres of diesel will be required to cover a distance of 240km?

(b) If the cost of 1 litre of diesel us sh. 3, 100, how much money will be used to enable a cover a distance 240km?

30.	The bells ring at intervals of 20minutes, 30 minutes and 40 minutes for infant section, Middle section and Upper section respectively.
a	a. After how long will they ring together?
	b. If they last rung at 8:00 a.m., at what time will they ring together again?
0.1	
31.	A parent distributed a certain amount of money to his three children, Jane, Jennet and Jackeline in the ratio of 3:5:4 respectively. If Jennet got sh. 50, 000. Work out their total share.

32.	Using a pair of compasses, a ruler and a pencil, construct a triangle ABC in
	which $AB = 8cm$, $BC = AC = 7cm$

- (a) Measure angle A.
- (b) Measure angle C.

END