SUCCESS INTEGRATED PRIMARY SCHOOL
Pre-Mock Examination (Set 6), 2020
__Mathematics__
Time: 2 hours 30 minutes

INDEX NUMBER | | | | | | | | | |

NAME: _____

Signature: _____

School: _____

District _____

__Read the following instructions carefully:__

1. **This paper is made up of section A and B.**

2. **Section A has 20 short answer questions (40 marks).**

3. **Section B has 12 questions (60 marks).**

4. **All answers to both section A and B must be written in the spaces provided.**

5. **All answers must be written in blue ink and diagrams should be drawn in pencil.**

6. **Any handwriting that cannot easily be read will lead to loss of marks.**

7. **Unnecessary alteration of work may lead to loss of marks.**

8. **No calculators are allowed in the examination room.**

PARENT'S COMMENT	
SIGNATURE	
Date:	

SECTION A:(40 Marks)

1. Subtract 63 from 110

2. Change 12_{ten} to binary base.

3. A forty minute lesson started at 11:40 a.m. At what time did it end?

4. Solve: $3(m - 4) = 3$

5. Work out $3 x ^- 2$ using the number line below.

6. Find the next two numbers in the sequence below.

7. In the Venn diagram below, list the members of set P.

8.   If 1/3 of my salary is shs. 18,000, what is my salary?

9.   Using a pair of compasses and a ruler only, bisect the angle below

10. By selling a bag at shs. 4,000 a trader made a loss of shs. 1,500. What was the cost price of the bag?

11. How many 0.25 ml cups can be obtained in a 5 litre container?

12. The mean of 6, x+2 and 4 is 5. Find the value of x.

13. Express 40m/sec to km /hr.

14. What number has been increased by 15% to become 345?

15. The area of the rectangle below is 75cm^2. Find the value of y.

16. Find the complement of 60°.

17. The probability that Jane will pass the examination is $^5/_6$. What is the probability of failing the examination?

18. Simplify: 5p + 2k – 3p +k

19. What number has been expanded to give: $(6 \times 10^2) + (8 \times 10^0)$

20.   Write CXIV in words.

Section B
21. (a)   .   Simplify: $\dfrac{5.5 \times 0.08}{6+1.2}$

(b)   The ratio of boys to girls is 2:3 respectively. If there are 27 girls, how many pupils are in the class?

22.   At a party which was attended by 70 guest, all of them were served with mineral water (W), 40 guests were served with Pespsi – cola (P) and mineral water, 35 guest were served with Fanta (F) and mineral water while 3 guest were served with mineral water only.
a.   Use the above information to complete the Venn diagram below.

b.   How many guest were served with three types of drinks?

c.   How many guest were served with only two types of drinks?

23.   Write 306.82 in standard form.

b.   Round off 6084 to the nearest hundreds.

24.   Town Q is 60km East from town P and town R is 55km from Q on a bearing of 225º.
a.   Draw a sketch diagram to show the position of the 3 towns.

b.   Using a scale of 1 cm to represent 10km, draw an accurate diagram showing the three towns.

c.   Find the shortest distance between town P and town R in km.

25.   The figure ABC is an isosceles triangle. Study it and answer the questions that follow.

a.   Find the value of x.

b.   Work out the area of the triangle ABC

26. a.   Prime factorise 54 and give your answer in power form.

b.   The Greatest Common Factor (GCF) and the Lowest Common Multiple (LCM) of two numbers are 3 and 45 respectively. If the first number is 9, find the second number.

27. The table below shows the buying and selling of different currencies.

Currency	Buying	Selling
Us dollar	3,500	3600
UK £	3420	4500
Ug sh.	1080	1950

a. How much money in Ug Shillings can one get with Us dollar 65?

b. Kato bought a television set at UK £ 4800. how much money did he pay for at television set in Ug shillings?

28. In the figure below, PQ is parallel to RS
a. Find the vale of X

b.   What is the size of angle P?

29.   The diagram below shows a rectangular tank measuring 80cm by 30cm by 50cm.

a.   Find the volume of the tank in cm³

b.   How many litres of water can fill the tank?

c.   If the tank is ¾ full of water, how many litres of water will be in the tank?

30. The time table below shows the arrival time and the departure time of a bus traveling from town A to town D.

Town	Arrival	Departure
A		8:30 a.m
B	9:10 a.m	11:40 a.m
C	12:30 p.m	1:50p.m
D	2:00 p.m	

a. At what time did the bus arrive at town

b. How long did the bus take to travel from town B to C?

c. If the distance from town A to town B is 121km, find the average speed of the bus for the whole journey.

31. a. Expand 203_{five} using powers.

b.   Use distributive property to work out:
$(45 \div 10) + (55 \div 10)$

c.   What is the place value of 3 in 823.46?

32.   Amos left town A at 7:00 a.m. he traveled at 4okm/hr for 1 hour and arrived at town B. he rested for 30 minutes and continued to town C at 32km/hr for 2 ½ hours. He rested for 1 hour and drove back home in only 2 hours. Show Amos journey on the graph below