



# SUCCESS INTEGRATED PRIMARY SCHOOL

## Pre-PLE Mock Examination (Set 8), 2020

### Mathematics

Time: 2 hours 30 minutes

INDEX NUMBER 

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NAME: \_\_\_\_\_

Signature: \_\_\_\_\_

FOR EXAMINER'S USE ONLY

School: \_\_\_\_\_

District \_\_\_\_\_

EMIS Number: \_\_\_\_\_

A	
B	
TOTAL	

**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.

<b>PARENT'S COMMENT</b>	
<b>SIGNATURE</b>	
<b>Date:</b>	

**SECTION A:(40 Marks)**

1. Add:  $22 + 33$
2. Write 93,006 in words.
3. Solve:  $3p - 8 = 4$
4. Find the Sum of the next two numbers in sequence:  
4, 6, 8, 10, \_\_\_\_\_, \_\_\_\_\_
5. Give that;  $K = \{\text{all prime numbers between 0 and 10}\}$  Find  $n(K)$

6. Write the evening time below in 24 hour clock system.



7. Given that  represents 7 balls. Draw balls representing 35 balls.

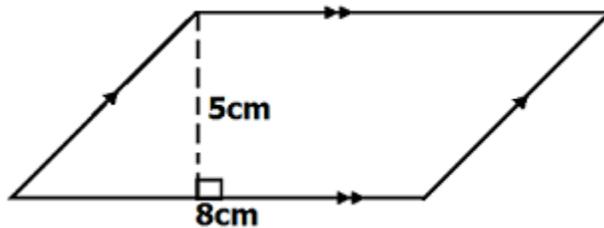
8. Simplify:  $\bar{3} - \bar{2}$

9. The cost of six tomatoes is sh 1,200. How many tomatoes can one buy with sh. 1,600?

10. Alice had  $\frac{1}{3}$  of the sugar, she ate  $\frac{1}{6}$  of it . What fraction of the sugarcane was left?

11. The bearing of Kyotera from Masaka is  $200^\circ$ . What is the bearing of Masaka from Kyotera?

12. Find the area of the quadrilateral below.



13. Using a ruler, a special and pair of compasses only. Construct an angle of  $270^\circ$ .

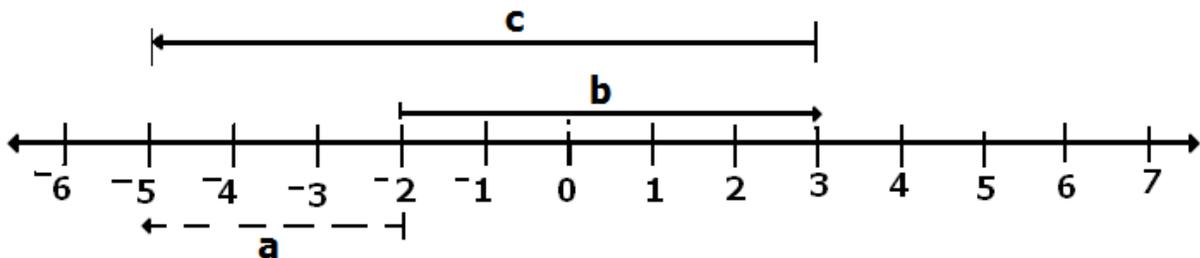
14. Work out:  $101^{\text{two}} \times 11^{\text{two}}$



20. If today is Saturday what day of the week was it 45 days ago?

**Section B**

21. **Below is a number line showing integers. Use it to answer questions that follow.**



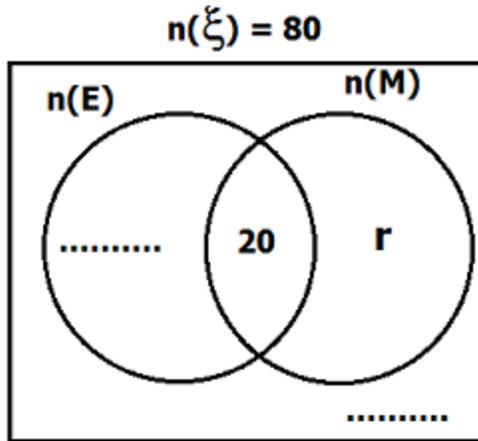
(a) Name the integers represented by arrows: (1 mark each)

(i)  $a =$                       (ii)  $b =$                       (iii)  $c =$

(b) After covering 8km, a motorist realized that his tyre had a puncture. He stopped and got a boda boda to go back for a mechanic who was 3km backward. How far is the mechanic man from the motorist's home? (2 marks)

22(a) In a class of 80 pupils, 35 like English, 20 pupils like both English and Mathematics,  $r$  pupils like Mathematics only while those who don't like any of the two subjects are exactly the same as those who like English only.

(a) Use the information given above to complete the Venn diagram. ( 2 marks)



(b) Find the value of  $r$ . (2 marks)

(c) If a pupil is picked at random, What is the probability that the pupil likes Mathematics only?

23. Given that;  $m = 5$ ,  $y = 2$ , Find the value of  $my^{-1}$ . (2 marks)

(b) A mother is 42yrs and the daughter is 16yrs. In how many years will the mother be twice as old as the daughter? (3 marks)

24. Given the digits: 8,0,1 and 2.

(a) Form the largest four- digit numeral. (1 mark)

(b) What is the sum of value of 2 and the place value of eight in the largest number formed in (a) above? (4 marks)

25. In a juice factory, sugar is mixed with water in the ratio of 2:8. The juice is packet in 20 litre jerrycans.

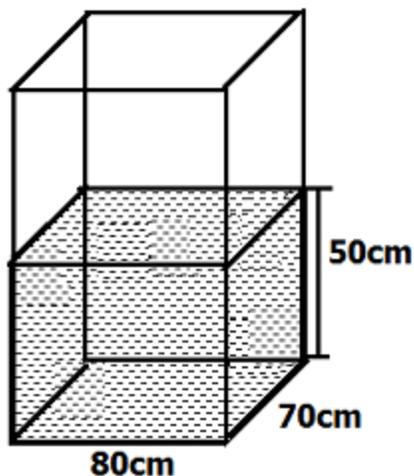
(a) How many litres of water are used in one jerrycan of juice?

(2 marks)

(b) If one kg of sugar costs sh. 3000, how much does it cost to produce 500 litres of juice? (3 marks)

26. Using a ruler, a pair of compasses and a pencil only, construct a triangle RST in which  $RS = 8\text{cm}$ , angle  $TRS = 60^\circ$ , angle  $RST = 45^\circ$ . Construct a perpendicular from T to meet RS at W. (5 marks)

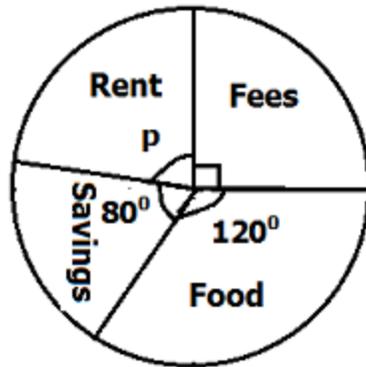
27. The tank below is  $\frac{1}{3}$  full of water.



(a) How much water is in the tank in cubic centimetres? (2 marks)

(b) Find the capacity of water when the tank is full. (3 marks)

28. The pie-chart below shows Allan's monthly expenditure.



(a) Find the value of  $p$ . (2 marks)

(b) Allan spends sh, 144,000 on food . Find Allan's monthly income?

(c) Express Allan's savings as a fraction of the whole income. (1 mark)

29. A tax which travels at a speed of 12km/hr leaves Kyotera town at 9:30am and arrives at Masaka at 1:30pm. What is the distance between Kyotera and Masaka? (5 marks)

30. The mean of 3 consecutive even numbers is 16. Find their range. (5 marks)

31. Madada went to the market and bought the following items:

4kg of rice at sh. 3000 a kg.

$2\frac{1}{2}$  of sugar at sh. 4000 a kg.

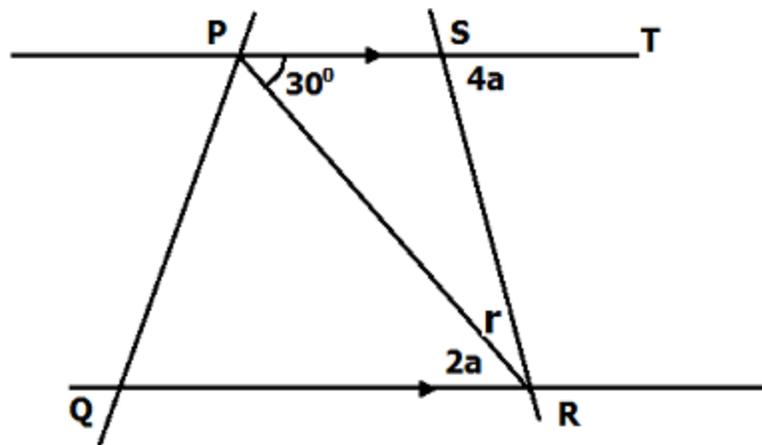
250<sub>g</sub> of tea leaves at sh. 7000 a kg.

2kg of salt at sh. 2800

(a) Find Madada's total expenditure. (4 marks)

(b) If he went to the market with sh. 30,000, what balance did he get?  
(1 mark)

32. In the figure below, QR is parallel to PT and PQ = RS. Use it to answer the questions below.



(a) Find the value of angle TSR in degree. (3 marks)

(b) calculate the value of r in degrees. (2 marks)