



# SUCCESS INTEGRATED PRIMARY SCHOOL

## Pre-Mock Examination (Set 5), 2020

### Mathematics

Time: 2 hours 30 minutes

INDEX NUMBER

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

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

**FOR EXAMINER'S USE ONLY**

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

District \_\_\_\_\_

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>	
Date:	

**SECTION A:(40 Marks)**

1. Work out:  $22 \div 2 =$
2. Given that set  $A = \{1,2,3,4,5,6\}$  and set  $B = \{1,3,5,7,9\}$ . List the elements in the complement of  $A \cap B$ .
3. Write 29 in Roman numerals.
4. Simplify:  $\frac{7}{8} \div \frac{7}{10}$

5. The table below shows the marks scored by Jjunju in five daily mental work exercises each marked out of 10.

<b>Exercises</b>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>
<b>Scores</b>	4	6	7	5	6

Find Jjunju's modal score.

6. Work out:  $\bar{8} - \bar{2}$

7. Solve:  $\frac{2y - y}{3} = 5$

8. Write "Five thousand fifty five" in figures.

9. One afternoon Esther slept for 2 hours and woke up at the time shown on the clock face below. At what time did she go to bed?



10. Genevieve is 1.6 metres tall. What is her height in centimetres.

11. Work out:  $403_{\text{five}} + 424_{\text{five}}$

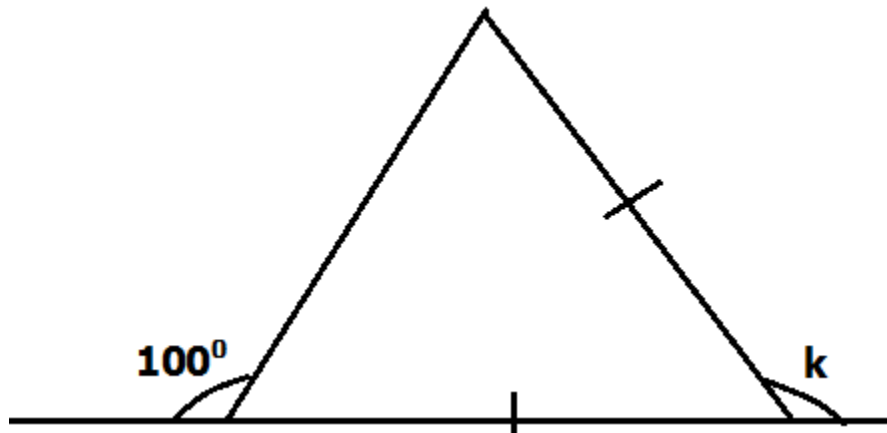
12. Find the next number in the sequence: 2, 4, 7, 12, 19, \_\_\_\_\_



17. Ali has a total of 24 bags of maize and beans in his store. If  $33\frac{1}{3}\%$  is maize, how many bags of beans are in the store?

18. Using the distributive property only work out  $(5 \times 8) - (5 \times 2)$

19. Work out the size of angle marked **k** in degrees.



20. Find the solution set that satisfies the inequality below  $3 < x < 8$

**Section B:**

21(a) Work out:  $6 - (0.5)^2$

(b) Work out:  $\frac{1.2 \times 0.15}{1.8}$

22. Grace went shopping and bought the items shown in the table below.

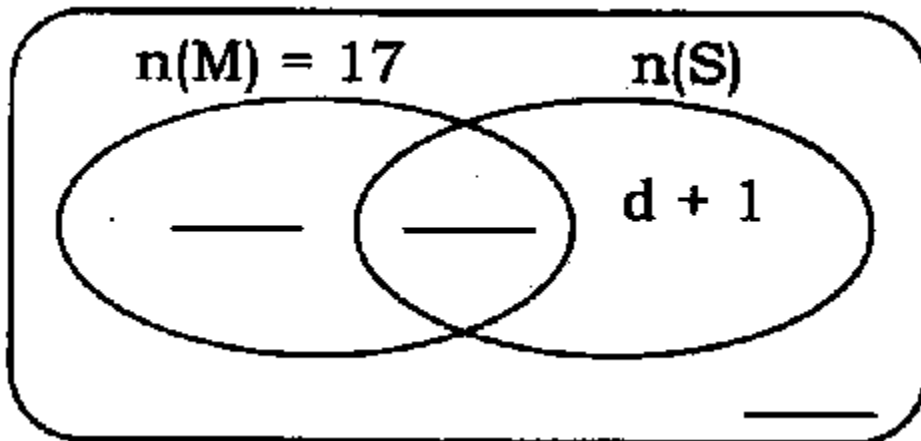
(a). Complete the table.

<b>Item</b>	<b>Quality</b>	<b>Amount</b>	<b>Amount</b>
Sugar	1 ½ kg	Shs. 3,000 per kg	Shs. _____
Soap	3 bars	Shs. ____ a bar	Shs. 7,500
Rice	_____ kg	Shs. 2,800 per kg	Shs. _____
<b>Total cost</b>			<b>Shs. 17,600</b>

(b) If she was given change of shs. 2,400, how much did she have at first?

23. In a school, 17 teachers teach mathematics (M). 8 teachers teach both Science (S) and Mathematics, while  $(d - 2)$  teachers teach neither of the mentioned subjects.

(a) Complete the Venn diagram below.



(b) If 7 teachers do not teach mathematics, find the value of  $d$ .

24(a) Given that  $p = 2$ ,  $q = 3$  and  $r = 4$ ; find the value of  $p^3 - qr$



(b) Solve:  $3(e - 2) = e$

25. The table below shows how a motorcyclist traveled from town W to town Z through towns X and Y. Study and use it to answer questions that follow.

<b>Towns</b>	<b>Departure</b>
Town <b>W</b>	Departure - 8:00am
Town <b>X</b>	Arrival - 9:45am Departure - 10:00am
Town <b>Y</b>	Arrival - 11:50am Departure - 12:05pm
Town <b>Z</b>	Arrival - 1:30pm

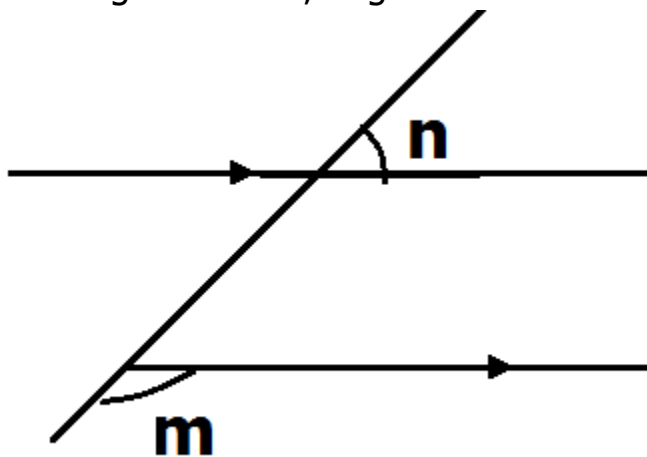
- (a) At what time did the motorcyclist leave town W?
- (b) How long does the motorcyclist take to travel from town X to town Y?
- (c) Find the total stoppage time of the motorcyclist.

26. At a party, the ratio of men to women to children was 4:5:7 respectively. If the total number of women and men at the party was 54:

(a) How many men attended the party?

(b) Find the number of children who attended the party.

27. In the diagram below, angle **m** is twice angle **n**.



(a) Find the size of angle **n**.

(b) Find the size of angle **m**.

28. The table below shows the number of pupils and how they scored in a mathematics test. Study and use it to answer questions that follow.

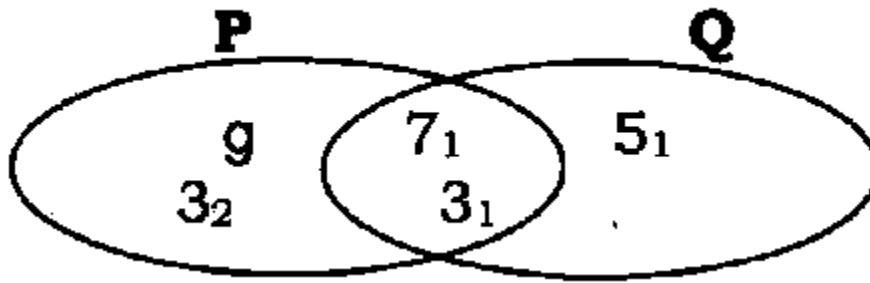
<b>Marks scored</b>	70	60	50	90
<b>No. of pupils</b>	3	4	2	1

(a) How many pupils sat for the test?

(b) Work out the average mark.

(c) How many pupils scored below the average mark?

29. The Venn diagram below shows the prime factors of two numbers **P** and **Q**. Study and use it to answer questions that follow.



- (a) Find the number represented by **Q**.

- (b) Find the GCF of **P** and **Q**.

30. With the help of a ruler, sharp pencil and a pair of compasses only;

- (a) construct a triangle OPQ in which angle OPQ =  $90^\circ$ , line PQ = 7cm and angle PQQ =  $30^\circ$ .

(b). Find the area of the triangle PQO.

31. The travel graph below shows Musa's journey from his home through town A to town B. Use it to answer the questions that follow.

(a). At what time did Musa arrive at town A?

(b). For how long did Musa stop at town A?

(c). How far is town A from town B?

(d). Calculate Musa's average speed over the whole journey.

32. The rectangular tin below is  $\frac{2}{3}$  full of milk. Study it and use it to answer the questions that follow.

(a). Find the height of the whole tin.

(b). Find the volume of the milk in the tin in  $\text{cm}^3$ .