# MASAKA UNITED SCHOOLS ACADEMIC BOARD (MUSAB)

### PRIMARY SEVEN SPECIAL MOCK EXAMINATION- 2022 MATHEMATICS

Time: 2hours 30 minutes

_	EM	IS No.	Per	sonal No	0.
			1		
didate's	Name:	*	*	-4	

## DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

#### **READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

- 1. This paper has two sections A and B.
- 2. Section A, has 20 short questions (40mks)
- 3. Section B has 12 questions (60marks)
- 4. Answer all questions.
- All answers to all questions must be written in the space provided.
- All answers must be written using blue or black ball pen or ink.
- Unnecessary crossing of work will lead to loss of marks.
- Any handwriting that cannot easily be read may lead to loss of marks.
- 9. Do not fill anything in the boxes indicated "FOR EXAMINER'S USE ONLY"

FO	R EXAMI	
QN. No.	MARKS	INITIALS
1 - 5		
6-10		
11-15	and a	
16-20		
21-22		
23-24		
25-28		
29-30		74
31-32		
TOTAL		- 0

Turn C

#### SECTION: A

Workout: 21 x 3	2.	Write "Forty seven thousand, nine hundred eighty" in figures.
Given that;  Set P ={ All factors of 18}.  Find n(P)	4.	Find the next two numbers in the sequence. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$
The number of pupils in a school reduced by 25%. If the original number of pupils was 1,800. Find the current number of pupils in the school.	6.	Express $\frac{3}{8}$ as a decimal fraction



8	Bisect the obtuse angle on the diag	ram t	pelow.
9.	Using the diagram below, calculate	the v	alue of h.
10.	What is the multiplicative inverse of $\frac{2}{5}$ ?	11.	Given that 4 apples cost sh. 2,000. Find how many apples can one buy with sh. 6,000.
12.	Given that y = "4, k=5 and q = 2  Evaluate: k - yq <sup>2</sup>	13.	Describe the unshaded part in the Venn diagram below.  n(\(\Sigma\))  n(M)  n(B)

	If $\frac{2}{3}$ of land	op growii	ng. How	many h	nectare	s were	they a	ltogeth	
5. P	Prime facto	orise 36 d	and writ	e your	answer	in expo			
5. P	Prime facto	orise 36 d	and writ	e your	answer	in expo			
5. P	Prime facto	orise 36 d	and writ	e your	answer	in expo			
5. P	Prime facto	orise 36 d	and writ	e your	answer	in expo			*
5. P	Prime facto	orise 36 d	and writ	e your	answer	in expo		1	* 1
5. P	Prime facto	orise 36 d	and writ	e your	answer	in expo			
5. P	Prime facto	orise 36 o	and writ	e your	answer	in expo	-		
5. P	Prime facto	orise 36 o	and writ	e your	answer	in expo			
							ments.		
					3.				
5. H	low many 2	50ml bot	ttles of	iuice c	on one	net from	n 2 lia		1
ju	uice?			,		ger mor	. 2 111	res of	rne same
1		•							
R	ound off 1	2.649 to	the nea	rest w	hole nu	mbaa			
	-1				noie nu	mber.			
1									

18.	A regular polygon has 12 right angles. How many sides has the polygon
	toward the same of
	The second secon
	A
	The state of the s
19.	A deliver left Verse left Here is a second of
19.	A driver left Kampala to Masaka with 8 passengers. When he reached Mpigi two passangers left the taxi and 4 passengers boarded from
	Lukaya. Find how many passengers reached Masaka.
	W
- 1	
	t e e e e e e e e e e e e e e e e e e e
	*
İ	
20	
20.	Find the range of -2, 0, -4, and -5.
N	
	5

	100	-
	TON:	•
-	TON.	0
- F-	10.	_

Shirat went to the market with 3 -ten thousand shilling notes and 21 bought the items as shown on the table.

(a) Study it carefully and complete it.

(4)		Totitu	Amount
Item	Unit cost	Quantity	Shs. 7000
Rice		2kg	
Beans	5hs. 3,000	2 ½ kg	5hs
7/12/19/2/21			5hs. 7,500
Maize flour	5hs. 2,500	Parra	5hs. 6,000
Cooking oil	Shs. 12,000	litres	3113. 0,000
	TOTAL		

(5marks)

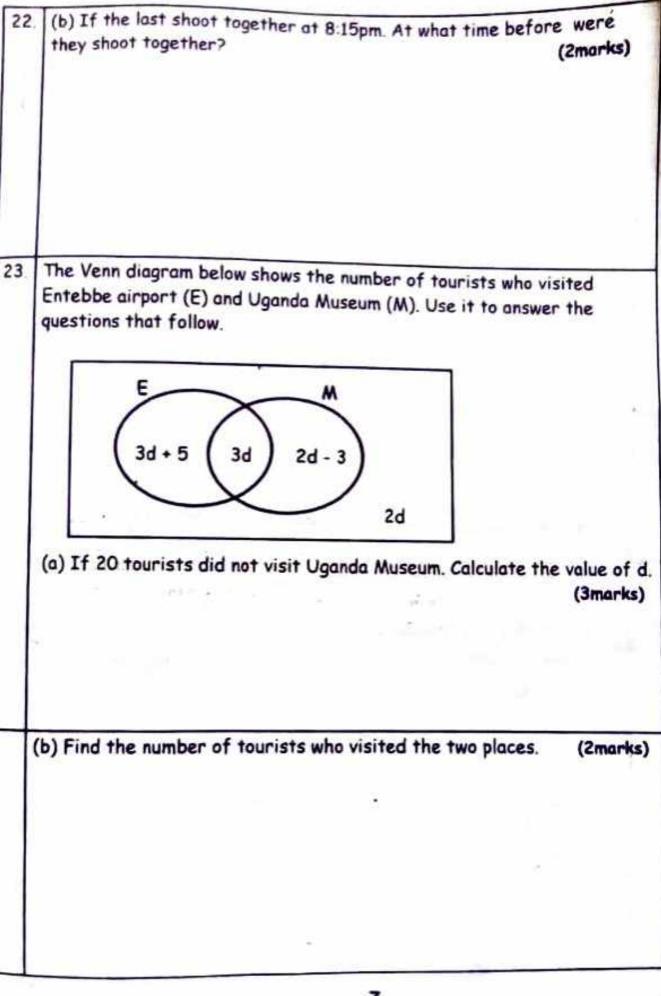
(b) Calculate how much Shirat paid for the items if she was given a discount of sh.8,000.

(1mark)

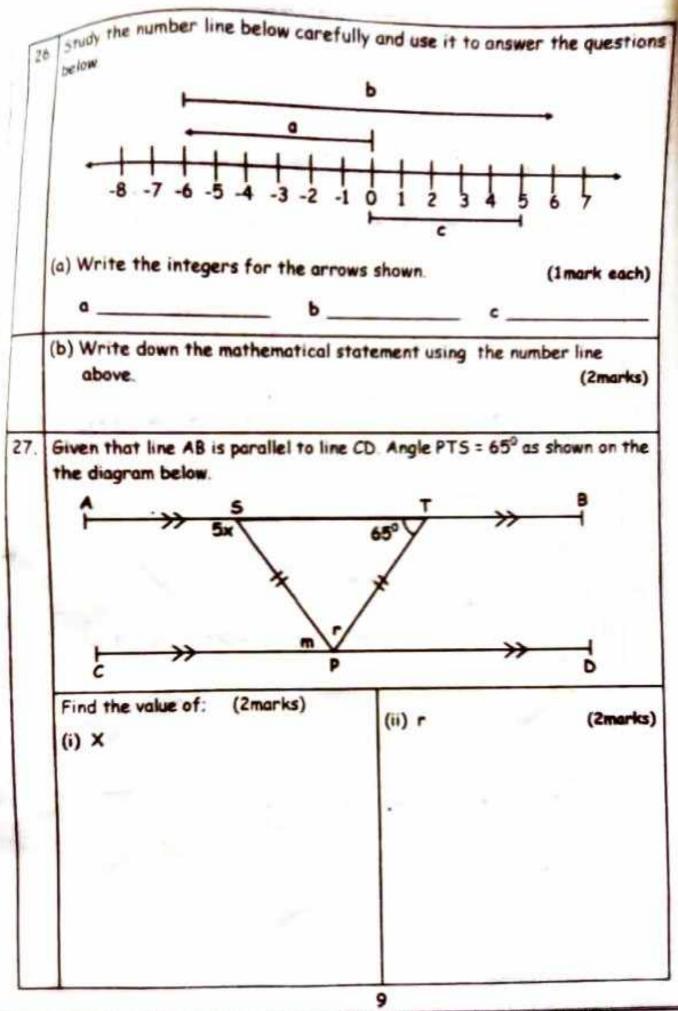
22. In a security training, bullets are shoot at an interval of 50 minutes and 75 minutes respectively.

(a) After how many hours will they shoot together?

(3marks)



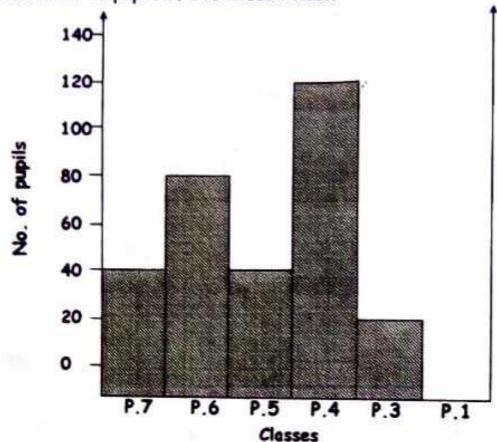
		ruler a charn nenril (On	SILUCI O III IUIIUI
1.	a) Using a pair of compasses, a	ruler, a sharp perion.	200
- 1	EHT such that HE = 8cm,	< HET = 60° and < EM I	30
-1			(4mrks)
1			
1			
1			
1			
١		2	
ı			
ı			
١			
١			
I	100	16	
1			
		126 - 1	35 10
			(Section)
			3.5
		, e	
		-	
ı			
١		7	
ı			
ı		7	
1			
١	(b) Drop a perpendicular from	T to meet HE at B. Measu	re TB
	(b) Drop a perpendicular from	T to meet HE at B. Measu	
			(1mark
	Barbra, Rose, Gorreth and Mer	isha are pupils of P.7 who	(1 mark)
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark)
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.
	Barbra, Rose, Gorreth and Mer weight is 47kg. Merisha weighs Gorreth is 4kg less than Barbra	isha are pupils of P.7 who: 52kg and she is as heavy	(1 mark se average as Barbra.



7.	(iii) m (1mark)
3.	A taxi driver leaves station Masaka at 9:45am and reaches Kampala station at 2:15pm. The distance between the two stations is 180km. Calculate the average speed of the taxi driver in kilometers per hour.  (4mrks)
	The diagram below shows a rectangular tank a farmer uses to collect his milk from the cows.
	40cm 30cm
	a) If the tank now is $\frac{1}{3}$ full of milk. Find the height of the full tank. (2mrks)
	b) How many litres of milk are in the tank now? (3mrks)
1	T.

(20 (a)		T. 11 10				
30 (a) Workou	.57	3	land Total	(b) Simplify:	$\frac{1}{4} + \frac{5}{8}$	$\div \frac{1}{2}$
0.2 × 0	0.3	(3marks)	2.7		4 8	(2marks)
	3	44				
			ı	4 4		
ł		*65				
31. a) Solve f	or x: 3(3	3x - 3) - 2(	2x -	2) = 15		(3mrks)
	1					
	97	_ 1				
	57	2.57			16.	
b) Given	that the he	ight of Pete heights is 2	r is Ocm	five times that Find Mary's he	of Mary.	If the (2mrks)
b) Given to	that the heice of their l	ight of Pete heights is 2	r is Ocm	five times that Find Mary's he	of Mary. eight.	If the (2mrks)
b) Given difference	that the heice of their l	ight of Pete heights is 2	r is Ocm	five times that Find Mary's he	of Mary.	If the (2mrks)
b) Given different	that the hei ce of their l	ight of Pete heights is 2	r is Ocm	five times that Find Mary's he	of Mary.	If the (2mrks)
b) Given different	that the heice of their l	ight of Pete heights is 2	r is Ocm	five times that Find Mary's he	of Mary.	If the (2mrks)
b) Given different	that the heice of their l	ight of Pete heights is 2	r is Ocm	five times that Find Mary's he	of Mary.	If the (2mrks)
difference	ce of their l	heights is 2	Ocm.	five times that Find Mary's he	aigni.	

The graph below shows the number of pupils who were not immunised against COVID-19 in a certain school recorded from five classes with equal number of pupils of 140 in each class.



- In which class was the highest number of pupils immunized? (1mk) (a)
- Find how many pupils were immunized in P.4. (b) (2marks)
- Find the total number of pupils who were not immunized in the 5 (2marks)