

BETTER EDUCATONAL CONSULTANCY

PRE-PRIMARY LEAVING EXAMINATION

SET TWO, 2022 MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.						
maex rve.							
Candidate's Name:				• • • • • • • • • • • • • • • • • • • •			
Candidate's Signatu	ıre:	•••••	•••••		•••••	•••••	
School Random No.	•			•••••		• • • • • • • • • • • • • • • • • • • •	
District ID:	•••••	• • • • • • • • • • • • • • • • • • • •		•••••			••••
Read the following inst	ructio	ns ca	areful	ly:			
1. Do not write your sch anywhere on this pap		of dis t	t rict r	name			
2. This paper has two s Section A has 20 que 12 questions.					l has		
3. Answer all questions sections A and B muspaces provided.					l		
4. All answers must be ball point pen or ink. will not be marked.			_				
5. No calculators are a examination room	ıllowe	ed in t	he				
6. Unnecessary chang that cannot be easily	•	-					_
6. Do not fill anything in				ated:			

inside the question paper.

FOR EXAMINER'S USE ONLY

Personal No.

Qn. No	MARK	EXR'S NO.
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

2. Express 546 in Roman numerals.

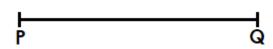
3. Given that n(B) = 8 and n(D) = 7 and $n(B \cap D) = 3$, find $n(B \cap D)$.

4. Simplify: -8 - -6

5. Work out the mean of (2f + 4), (f - 3) and (3f + 11).

6. Simplify: 8(a-2) - 3(a+2)

7. Using a ruler, a pencil and a pair of compasses only, bisect the line segment PQ below.

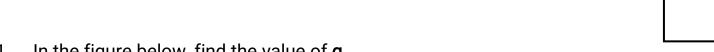


8. Simplify: $1 \frac{1}{2} - \frac{5}{12}$

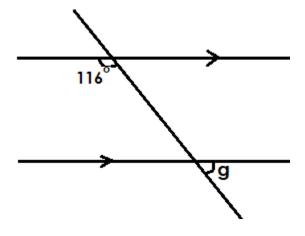
9. A waiter served a full bottle of mirinda fruity to dinners using glasses of size illustrated below. How many guests did she serve if all the soda was served?



10. There are 40 pencils in a bag of which some are red and others are blue. If the probability of picking a blue pencil is ³/₈, how many red pencils are in the bag?



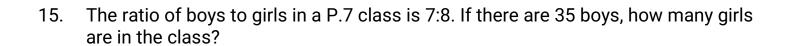
In the figure below, find the value of **g**. 11.



Work out: 10110_{two} - 1111_{two} 12.

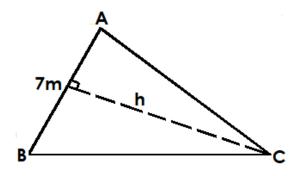
An athlete covered a distance of 100m in 20 seconds. Calculate the speed of the athlete in Km/h.

Find the square root of 1 $^{24}/_{25}$ 14.



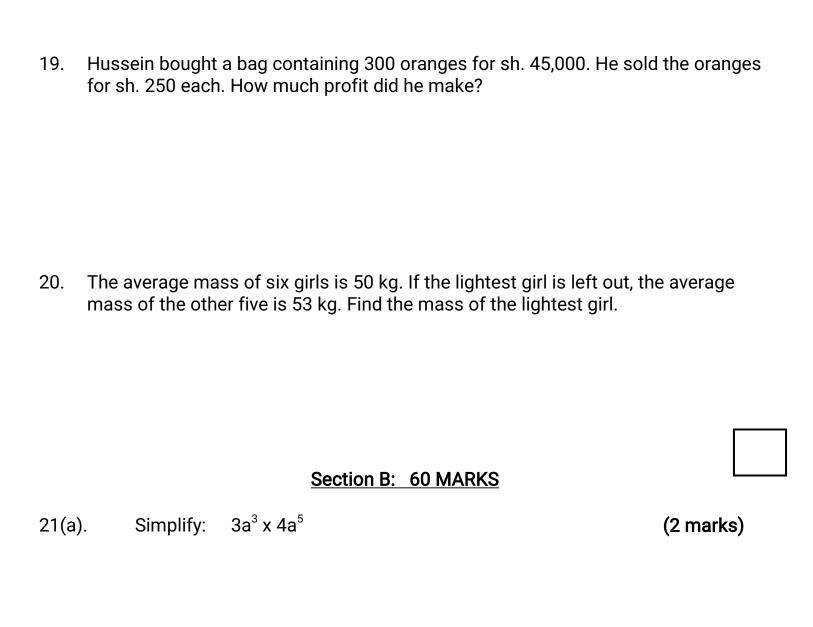


16. The area of triangle ABC below is $28m^2$. If AB = 7m, find the value of **h**.

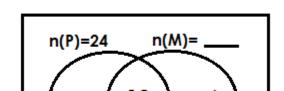


17. A bus leaves Masaka at 15 44 hours and reaches Buwama after 1 hour 45 minutes. At what time does the bus reach Buwama?

18. Write the solution set for $6 \le 2y \le -4$



- (b). Expand 25.692 using powers of ten. (2 marks)
- 22. In a P7 class, 24 pupils drink Pepsi cola(P), (y + 6) drink Mirinda (M) only, 13 drink both pepsi cola and mirinda while (y 4) drink neither of the two types of soda.
- (a). Use the information above to complete the Venn diagram below. (2 marks)





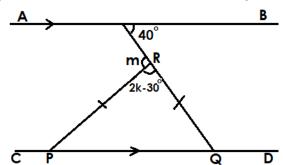
(b). Given that the number of pupils who drank only mirinda is thrice those who drank none of the two drinks, find the value of y.

(3 marks)

23(a). Simplify:
$$2 \frac{1}{4} \times 2^{\frac{2}{3}} \div 1^{\frac{4}{5}}$$
 (3 marks)

- (b). Six men can dig a farm in 12 days. How many more men are needed to dig the farm in 8 days?

 (2 marks)
- 24. In the figure below, AB is parallel to CD and PQR is an isosceles triangle. Study the figure and use it to answer the questions that follow.

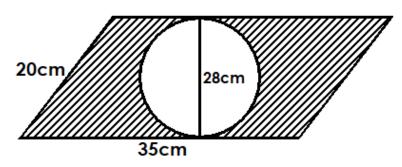


(a). Find the value of k.

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

(2 marks)

25. Find the area of the shaded part in the diagram below. (Take $\pi = {}^{22}/_7$) (5 marks)



26. The table below shows the rate at which Centenary Bank buys and sells different currencies.

Use it carefully to answer the questions that follow.

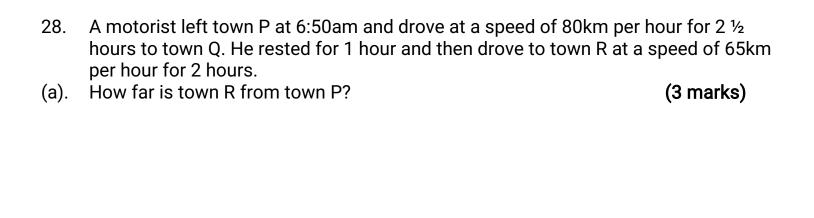
Currency	Selling in UGX	Buying in UGX
1 British Pound (£)	4,400	4,490
1 Rwandese Franc	3.8	4.0
1 US dollar (\$)	3,750	3,800

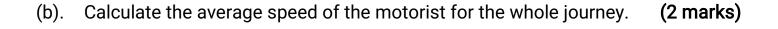
a) How many British Pound Sterling does Joel get from Ug sh. 1,616,400?

		(2 marks)	
b) The o	cost of a Samsung curved flat screen is	Rwanda Francs 400,000. F	ind the cost
	e same item in US dollars.	(3 marks)	
		(o manto)	
27(a).	Using a pencil, a ruler and a pair of con	npasses only, construct a t	riangle CDE
n which CD =	7.5cm, angle ECD = 45° and angle CDE	=75° (4	4 marks)
0.5	7.00m, angle 200 To and angle 002	, , , ,	i marko)

(b). Measure the length of DE.

(1 mark)





29 (a). Solve:
$$2n - 4 = \underline{n} + 6$$
 (3 marks)

(b). A mother is twice as old as her son John. Find the difference between their age if the mother is 48 years old. (2 marks)

30.	The tank below contains 2100 litres of water. Use it to answer the follow.	e questions that
a)	Calculate the height of the water in the tank.	(3marks)
	150cm	
b)	If the tank is 2/5 full, how many litres are needed to fill the tank? (3mark	(s)
31. (a).	In a school, there are 10% more boys than girls. If there are 198 girls, what is the total number of pupils in the sch	ool?
	(3marks)	

Find the ratio of girls to boys in its simplest form. **(2marks)**

(b).

32. The table below shows marks scored by P7 candidates in a series of Science Pre PLE tests administered at school.

Score	90	60	70	80
Number of Candidates	1	у	3	2

a) Given that the mean score of their marks is 70, find the value of y. (3 marks)

b) How many candidates scored below 80 marks?

(2 marks)