PRE PLE -2021

SPECIAL P.7 MATHEMATICS SET I

Time allowed: 2 Hours 30 minutes

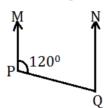
Candidates' Na	ame:	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	
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School:			<u> </u>		•••••					J
				SEC	CTIO	NA	(40 r	nark	s)	
1. Subtract 11							20,0	000 -	+ 70	nber has been expanded 0 + 4 + 10 ⁻¹ ?
3. Write CIX in numerals.	Hind	lu A	rabi	С			num	ber	s les	t set C = {All composite as than 20} and set D = es of 3 less than 25}, find
5. Round off 54 ten thousands		51 to	o the	e ne	ares	st	6. F	ind t	the v	alue of y in degrees.

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7. Mr. Opio bought a dozen of pens for Shs.6,000. He later sold each at Shs.650. Calculate his profit.	8. A mathematics lesson ended at 1:00p.m. If the lesson lasted for $1\frac{1}{2}$ hours. At what time did it begin?
9. Simplify: ⁻ 4 + ⁻ 2	10. Workout: $\frac{2}{3} + \frac{2}{5}$
11. Solve: 2m ² = 32	12. Convert 41 five to Octal base.
13. Mathematics and English textbooks were given to P.7 pupils at Kkonde Primary School in the ratio of 5:3 respectively. How many English textbooks were received if	14. In the space below, use a ruler, pencil and a pair of compasses only to construct an angle of 75°.

240 textbooks were given
altogether?

15. Given that a = 3, $b = \frac{2}{3}$ and c = 6, find the value of a(bc)

16. In the figure below, find the bearing of P from Q.



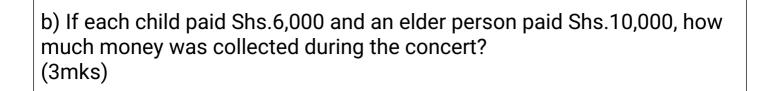
17. Two bells rings at an intervals of 30 minutes and 45 minutes. They begin ringing together after a certain time. After how long will they next ring together?

18. The exchange rate in the DFU Forex Bureau is Ug.Shs.3,650 for one US Dollar. How many dollars does a tourist need to buy Ug.Shs.730,000?

19. Calculate the area of the triangle JKM.

20. A car travelled at 25m/s from Kampala to Mpigi. What was its speed in km/hr?
SECTION B
21. Kulusumu went to the market and bought the following items;
$-2\frac{1}{2}$ kg of sugar at Shs.4500 per kg.
- 2 loaves of bread at Shs.9000 - 2 litres of cooking oil at Shs.5000 per litre 3000gms of salt at shs.1200 per kg. a) How much money did she pay for all items? (4mks)
b) If Kulusumu was given a change of Shs.16,150, how much money did she have at first?

(1mk)	
22. The Venn diagram below shows a 25 of whom play football (F), 18 play while X play only hockey. a) Complete the Venn diagram below (2mks) $n(\ge) = 36$ $n(F) = 25 n(N) = 18$	netball (N) and 8 play all the games
b) Find the value of x. (2mks)	c) How many players played only two games? (1mk)
23. In a Namirembe Theatre, seats are 25 rows with 20 seats on each. On a first 8 rows and the elders occupied to a) How many people attended the co (2mks)	Christmas day, children occupied the the rest for the concert,

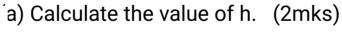


24(a) The sum of three consecutive odd numbers is 63. Find the three odd numbers.

(3mks)

b) Find the range of the numbers. (1mk)

25. The figure below is a rectangular tank which is 72 litres of water full.

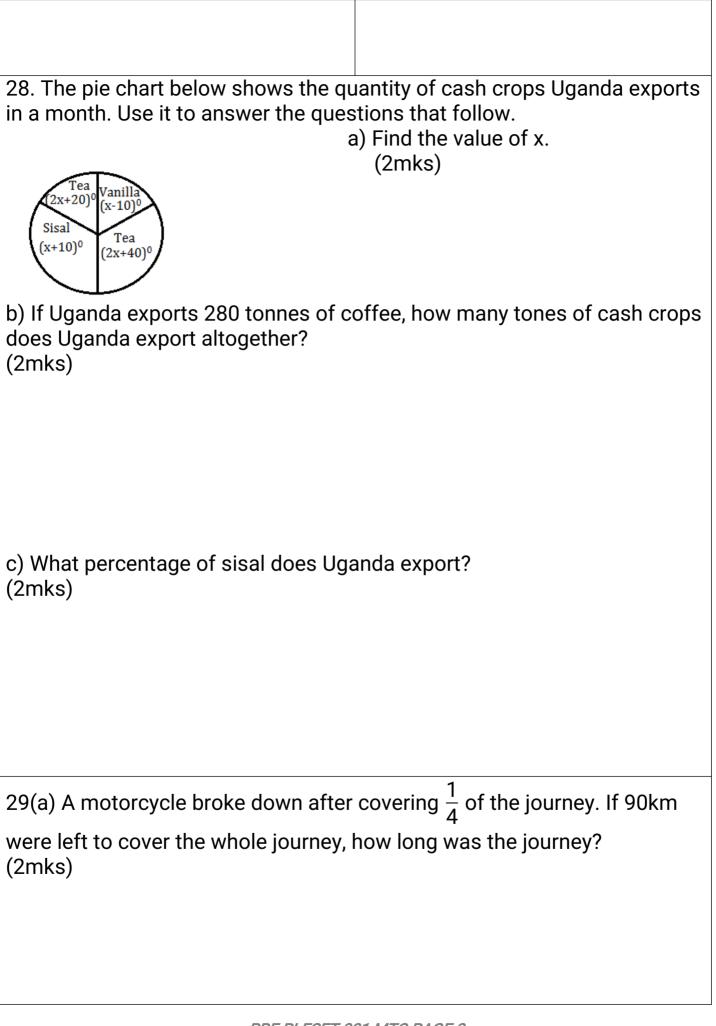


h 30cm

b) How many litres of water are needed to fill the tank? (2mks)

70cm

26(a) Hoing a ruler popul and a pair	of compaces only construct a
26(a) Using a ruler, pencil and a pair triangle ARC where $\Delta R = 6 \text{cm} < \Delta = 4$	5° and <b 60°.="" =="" a="" drop="" perpendicular<="" td="">
line from C to meet line AB at P.	o and ab oo brop a perpendicular
(4mks)	
b) Measure: (i) <c< td=""><td></td></c<>	
(1mk)	
(ii) Line AC	
(1mk)	
27. Solve and find the solution set from	
a) 5y - 3 ≥ 12	b) Solve for x: $2(2x - 1) = 2(x + 8)$
(2mks)	(3mks)



b) Simplify:	0.68 x 0.4
(2mks)	0.16

30. By selling a watch at Shs.180,000 a shopkeeper makes a loss of 10%. For how much would he sell it in order to make a gain of 20%? (4mks)

31. The table below shows marks scored in Mock Exams by some pupils in 2012. Study it and answer the questions that follow.

Marks	60	80	70	90
Frequency	Х	2	1	3

a) Find the value of x if the mean mark is 74. (3mks)

b) Calculate the range. (1mk)

c) Find the median mark. (1mk)

32. Study the figure below and answer (a) Calculate the value Degrees (2mks) (i)P	er the questions that follow. lue of angles marked by letters in
ii) q (1mk)	iii) k (1mk)
b) The size of each interior angle of a polygon. (2mks)	regular polygon is 144°. Name the

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