KYLA EDUCATIONAL SUPPLIES LTD

PRIMARY SEVEN PRE-MOCK II EXAMINATION

2022

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Registration No.						Personal No.		

Candidate's Name: ……

Candidate's Signature: ……

School Name: ……

District Name:……

Readthefollowing instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. Thispaperhastwo sections: **A**and**B**. Section**A** has **20**questionsandSection**B** has**12**questions. The paperhas**16printed pages** altogether
3. Answer **all**questions. **All**theworking forboth sections**A**and**B**mustbeshowninthe spaces provided.
4. **All** workingmustbedone usinga**blue**or **black** ball point penorink. Anywork done inpencilother than graphs anddiagramswill **not**bemarked.
5. **Nocalculators**areallowed intheexamination room.
6. Unnecessary **changes**inyour work and handwriting that cannot easily be read may leadtoloss of marks.
7. Donotfillanything inthetable indicated: **"ForExaminers'Useonly"**andboxes

FOR EXAMINERS´ USE ONLY		
EXR´S Qn.No.	**MARKS**	
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

Turn Over

SECTION A: 40 MARKS

Answer all the questions in this section

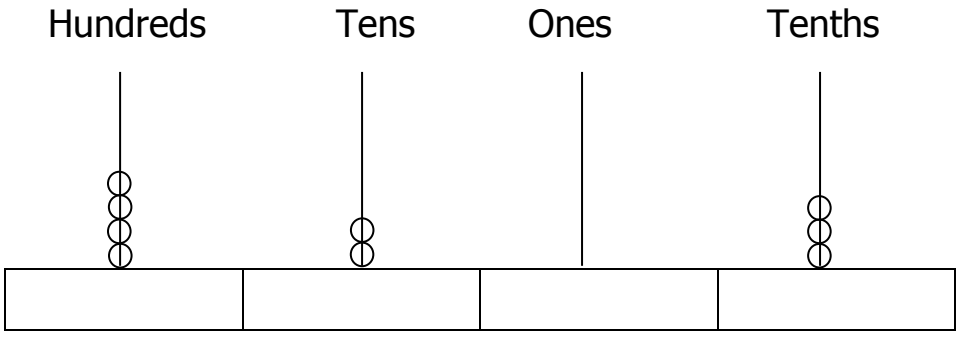
Questions **1** to **20** carry two marks **each**

1. Work out: 103 + 7

2. Write in figures: Nineteen thousand, nineteen.

3. Given that A = {2, 3, 5, 7, 11} and E = {1, 3, 6, 10, 15}. Find K.

4. Write the number shown on the abacus below



5. Show 3:37p.m on the clock below:

6. Simplify 6k – 7k – k

7. A lorry uses 6litres of petro to cover 30km. how many litres of Petro will be needed to travel 100km?

8. A pick-up carries 8.5 tonnes of maize flour to the market. Find the maximum number of bags weighing 50kg each pick-up can carry.

9. With the help of a ruler, a pencil and a pair of compasses only, construct an angle of $37\frac{1^0}{2}$ in the space provided below.

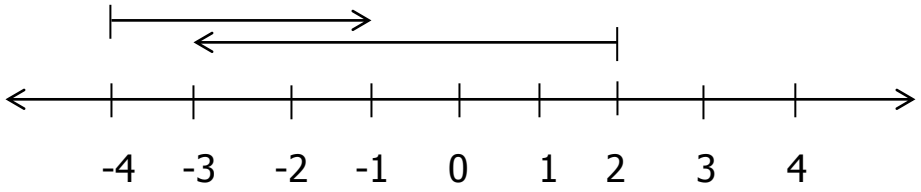
10. Find the product of the next two numbers in the sequence:

    -27, -17, -13, -9, _____, _____

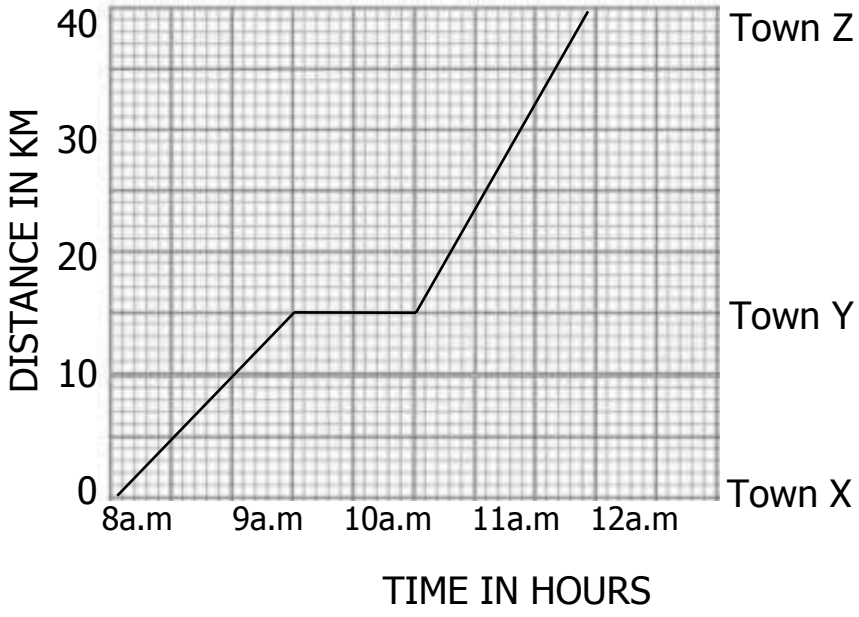
11. Work out: (0.01x800) - (700x0.01)

12. Round off 3.675 to the nearest tenths

13. Workout the difference of the integers shown on the number line below:



14. The travel graph below shows how Mata travelled from town X through town Y town Z. Study it and use it to answer the question that follows;



Calculate Mata's average speed for the whole journey.

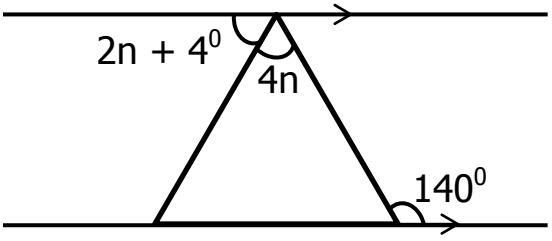
15. The average weight of 5 pupils is 45kg. When the sixth pupil joins the group, the average becomes 50kg. Work out the weight of the sixth pupil.

16. Decrease 40 sheep by $2\frac{1}{2}$ %.

17. Solve the inequality: $3(1 - x) < 6$

18. A man had some mangoes, when he grouped them in heaps of 6, 5 mangoes were left and when he grouped them in heaps of 7, 6 mangoes remained. How many mangoes did he have?

19. Find the size of **n** in degrees in the diagram below.



20. A customer paid us dollar 45 for a pair of shoes after being a discount Sh 57,750, what was the original price of shoes in Uganda shillings if I US dollar costs UG Sh 3, 850?

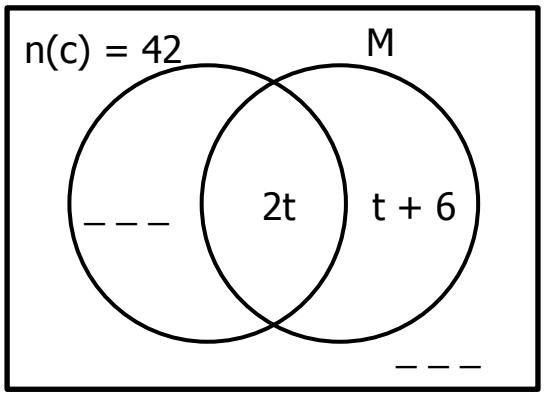
SECTION B: 60 MARKS

Answer all questions in this section

Marks for **each** question are indicated in brackets

21. In a village,42 farmers grow Coffee (C), t + 6 farmers grow Maize (M) only, 2t farmers grow both crops while I farmer grows neither of the crops.

(a) Use the information given above to complete the Venn diagram below (02 marks)



(b) If 27 farmers grow maize altogether, find the total number of farmers in the village. (03 marks)

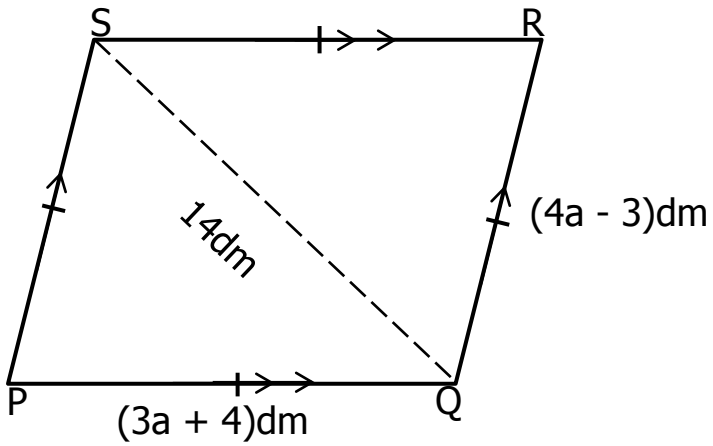
22. (a) Express 0.3636--- as a common fraction in its simplest form.
(02 marks)

(b) Simplify: $\frac{4}{5} + \frac{1}{3} \times \frac{3}{5} - \frac{1}{4} \, of \, \frac{2}{5}$ (03 marks)

23. (a) Convert 45 to base three. (02 marks)

(c) Given that $47_n = 133_{five}$. Find the value of n. (02 marks)

24. The diagram below shows a quadrilateral PQRS. Study it and use it to answer the questions that follow.



(a) Work out the perimeter of the Quadrilateral PQRS. (02 marks)

(b) Calculate the area of the Quadrilateral PQRS. (03 marks)

25. To bake 100 chapattis for sale, Mwesigwa has to buy the following items.

    (i) $3\frac{1}{2}$ litres of cooking oil at Sh 6,000 per litre

    (ii) 2 packets of wheat flour at Sh 5,500 per packet

    (iii) 3 tins of charcoal at Sh 5,000 per tin

    (iv) Spices for Sh 3,000.

    If Mwesigwa sold all the chapattis at Sh. 700 each, calculate his percentage profit. (05 marks)

26. (a) Using a ruler, a pair of compasses and a pencil only construct a triangle RST such that RS = 7cm, angle SRT = 120^0 and RST = 30^0. Construct a perpendicular line from T to meet RS at point M (04 marks)

(b) Measure the length of MT ……cm (01 mark)

27. The table below shows marks scored by P.7 pupils in mathematics test. Study and answer questions that follows:

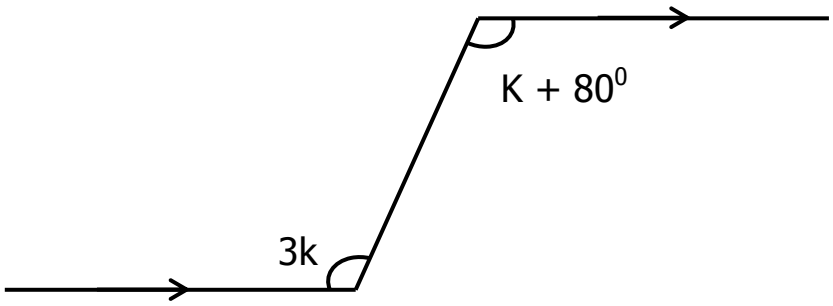
Marks	60	80	70	d
Tallies	/ / / /	/	/	/ / /

Find the value of d if the average mark was 74 marks. (04 marks)

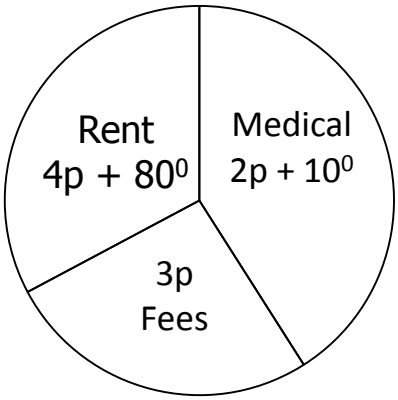
28. (a) The interior angle of a regular polygon is 20% more than the exterior angle. Calculate the number of sides of the polygon.

(03 marks)

(b) Find the size of angle K in the diagram. (02 marks)



29. The pie-chart below shows how a family spends its income. Study it carefully and answer the questions that follow.



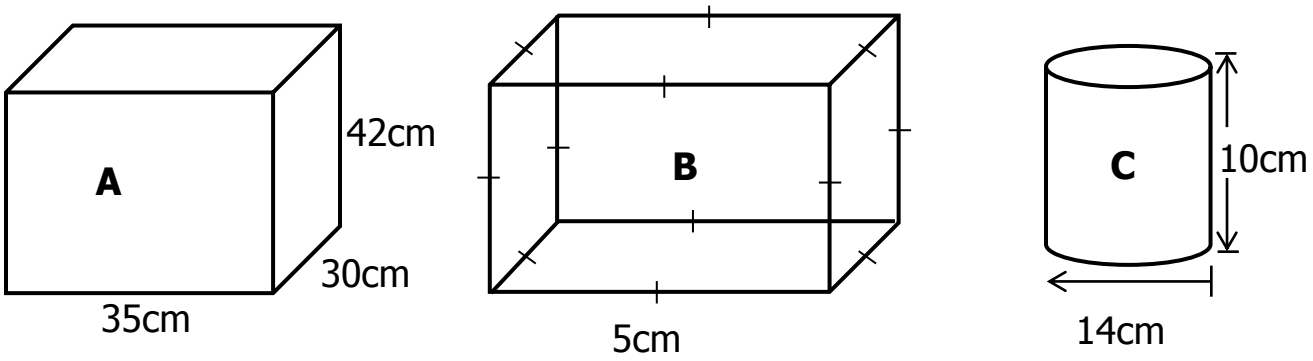
(a) If the family spends Sh 110,000 more on rent than, fees, find the total income of the family. (04 marks)

(b) How much does the family spend on medical and fees altogether.
(02 marks)

30. (a) Solve: $\frac{1}{2}p + 7 = \frac{1}{3}p + 9$ (02 marks)

(b) A farmer had 40 sheep on a farm. The number of goats is four times the number of cows on the farm. If there are 48 more goats than cows, find the total number of animals on the farm.
(03 marks)

31. Study the diagrams below and use them to answer the following questions.



(a) How many layers of tin **C** can be filled in Prism **A**? (01 mark)

(b) Find the number of cubes that can be packed in prism **A**
(02 marks)

(c) Calculate the volume of the space that can be left after packing cupfuls of tin (**c**) in Prism **A**. Take ($\pi = \frac{22}{7}$) (03 marks)

32. Three men Opio, Odong and Opeta shared land in the ratio of 8:5:7 respectively. Opio then sold $\frac{1}{4}$ of his land to Opeta. If opeta has 12 acres more than Opio, find how much land the three men shared.

(05 marks)

END