MOTHERCARE PREPARATORY SCHOOLS

SET II **REVISION WORK TERM I - 2020**

P.7 MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

INDEX NO:

Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____ **Stream:** _____

School Random No: _____

District ID: _____

Read The Following Instructions Carefully.

1. The paper has **two** sections: **A** and **B**.
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. **All** working must be done using a blue or black ball – point pen or fountain pen. Diagrams must be drawn in pencil.
4. Un necessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in boxes indicated: **"For Examiners' Use only"** and those inside the question paper.

FOR EXAMINERS' USE ONLY			
SECTION	EXRS MARKS	T/L MARKS	OFFICE
A			
B			
TOTAL			

SECTION A: (40 MARKS)

Answer **all** *questions in this section.*

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

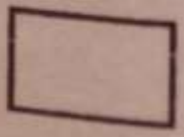
1. Work out: 86 - 68

2. Write 44 in Roman numerals.

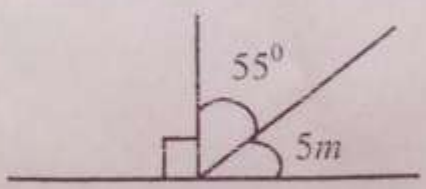
3. Simplify: $\bar{5} - \bar{8}$

4. How many $\frac{1}{4}$kg packets of sugar can be got from 20 kg?

5. Find the square root of 64.



6. Find the size of angle m in the figure below.



7. Musa deposited sh. 400,000 in the bank that offers an interest rate of 5% per month for 6 months. Find the amount of money he earned at the end of the period.

8. Change 30m/s to km/hr

9. Convert 14 40 hour to a 12 – hour clock system.

10. Using a ruler and a pair of compasses only, construct an angle of 120^0.

Turn over

11. Find the probability that Mary was born on a weekend.

12. Work out: $3 - 5 =$ ____ (finite 4)

13. Solve: $2(3y - 6) = 12$

14. If 8 girls can take 5 days to do a piece of work. How many more boys can 4 girls take to do the same piece of work?

15. The US presidential debate started at half past noon, if it lasted for $1\frac{1}{2}$ hrs, at what time did it end?

16. Paul bought Airtime cards of sh 20,000 each numbered consecutively from AT0046 to AT0065. How much money did he pay altogether?

17. Work out ; $\frac{1}{2} \div \frac{3}{4}$

18. If ● represents 8balls, draw pictures to represents 40 balls.

19. Represent 402 on an abacus.

20. Triple the angle which is $\frac{1}{9}$ of its complement

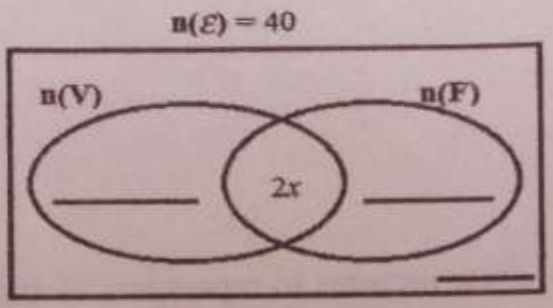
Turn over

SECTION B: (60 MARKS)

*Answer **all** questions in this section.*
Marks for each question are indicated in the brackets.

21. In a class of 40 pupils, 20 like volleyball (V), 25 like football. (F), 2x like both games while 5 pupils do not like any of the two games.

a) Complete the Venn diagram below. *(3 marks)*



b) Find the number of pupils who like both games. *(3 marks)*

22. Akello has three types of medicine. She takes them at the intervals of 6 hours, 8 hours and 12 hours respectively. If she takes all of them in the morning, after how long will she take all the three types of medicine again? *(2marks)*

b) Simplify: $\frac{3}{4} - \frac{5}{6} + \frac{2}{3}$ *(2 marks)*

23. a) Using a ruler and a pair of compasses only, construct a triangle ABC in which AB = 6 cm, AC = 7 cm and angle ABC = 90^0. *(4marks)*

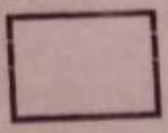
b). Measure the line BC. *(1mark)*

24. The table below shows the marks scored by pupils in a mathematics test.

Marks scored	80	70	90	60
Number of pupils	2	3	1	4

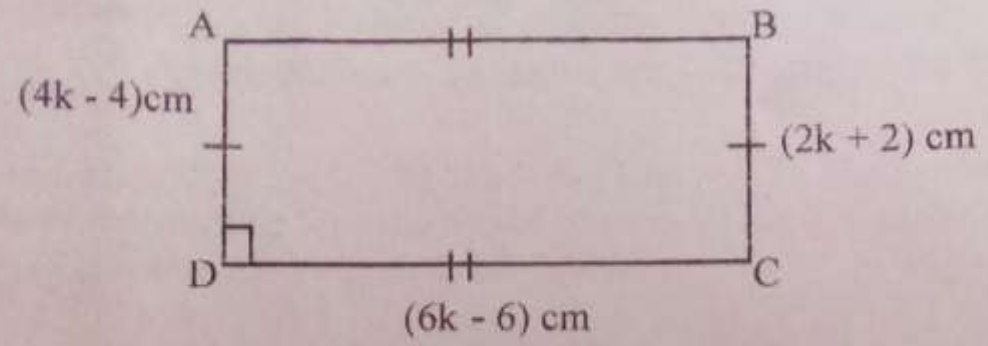
a) How many pupils sat for the test? *(2marks)*

b) Calculate the mean *(3marks)*



Turn over

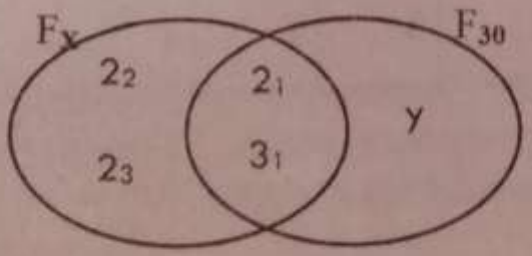
25. Study it carefully and use it to answer the questions that follow.



a) Find the value of k. *(2 marks)*

b) Work out the area of the figure above. *(3marks)*

26. The Venn diagram below represents the prime factors of two numbers. Use it to answer the questions that follow.



a) Find the value of X. *(2marks)*

b) Work out the LCM of X and 30. *(3marks)*

27. Express $13_{\textbf{ten}}$ in binary base (3marks)

b). Change $134_{\textbf{five}}$ to decimal base (3marks)

28. Grace went to the market and bought the following items;
    3 kg of maize flour at sh. 2,000 per kg
    2 loaves of bread at sh. 4,500 each
    4 kg of salt for sh. 6,000.
    a) How much money did she spend altogether? *(3 marks)*

b) If she went with sh. 30,000, find her change. *(2 marks)*

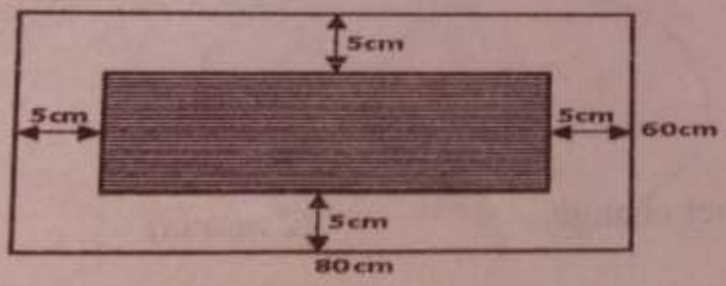
Turn over

29. Max, Tina and Nelvin shared a certain amount of money in the ratio of 2: 3: 5 respectively. If Tina got sh. 60,000.

a) How much money did they share altogether? *(3 marks)*

b) How much more money did Nelvin get than Max? *(2 marks)*

30. A piece of cloth is laid at the center of a table 80cm long and 60cm wide and it leaves 5cm all round as shown in the diagram below. Find the area which is not covered by the piece of cloth *(5marks)*



31. (a) Given that $x - y = 2$, complete the table below correctly.(2marks@)

X	2	_____	6
Y	_____	1	_____

32. Kivumbi started his journey from Masaka to Kampala a distance of 125km, at 7:00am driving his Hammer at a speed of 60km/hr. At 8:30am he made a stopover at Mpigi to buy Yamachomo for half an hour, if he was to reach kampala for his business meeting at 9:25am, at what speed must he drive his Car? *(4marks)*