

MOTHERCARE PREPARATORY SCHOOLS
REVISION WORK TERM I - 2020
P.7 MATHEMATICS

SET 6

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

1. Add: $254 + 38$

2. Work out: $-8 - -3$

3. Simplify: $5x - 3p - 2x + 5p$

4. Given that set $P = \{1, 2, 3, 5\}$, how many subsets has set P?

5. Change $3\frac{1}{5}$ kg to grams.

6. What is the next number in the sequence below?

1, 8, 27, 64, _____.

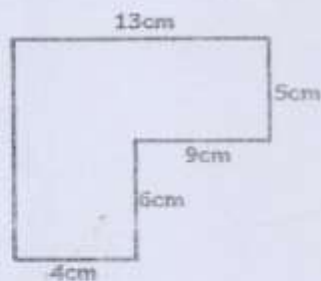
7. Round off 7.964 to the nearest tenths.

8. Using a pair of compasses, a ruler and a pencil only, construct an angle of 120°

9. Express 0.0684 in standard form.

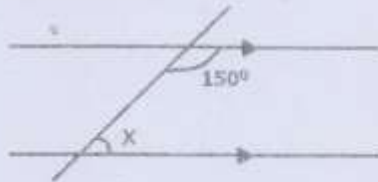
10. Solve: $3(x + 4) = 21$

11. Find the perimeter of the figure below.

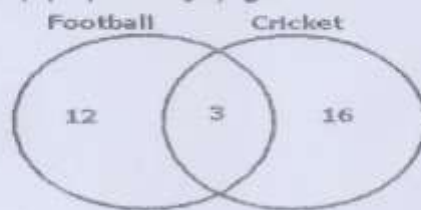


12. Find the simple interest on sh.120, 000 deposited in the bank at an interest rate of 5% per annum for 9 months.
13. Find base p given that $23_p = 15_{ten}$.
14. Work out: $3 - 4 = \underline{\hspace{2cm}}$ (Finite 5)
15. The cashier of Hillside P/S has a bundle of ten thousand shillings notes numbered consecutively from PQ 011563 to PQ 001612. How much money has she?
16. Given that $q = 4$ and $b = \bar{2}$, find the value of $2q - b$.

17. Find the value of x .



18. The Venn diagram below shows the number of pupils who play football (F) and Cricket (C). How many pupils enjoy games?



19. The price of a shirt was increased by 10%. If the new price of sh. 44,000, find the old price.

20. Abdul is x years old. He is 5 years younger than Madina. How old is Madina?

SECTION B: 60 MARKS

21. At a wedding party attended by 40 guests, all drank water, 18 drank soda and water, 20 drank juice and water, 2 took all the three drinks, y guests drank water only.

(a) Represent the above information on a Venn diagram.

(b) How many guests drank juice only?

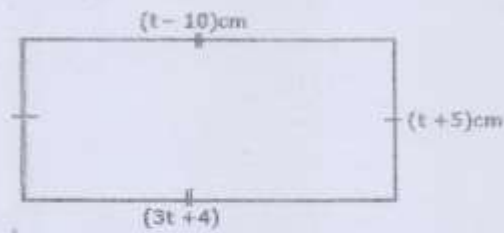
(c) Find the total number of members who took only two drinks.

22. In an examination containing 30 questions, 3 marks are awarded for every answer got correct and a mark is deducted for every number failed.

(a) Kafunvu got 20 questions correct, how many marks did he score

(b) Sumayiya scored 66 marks, how many numbers did she fail?

23. Use the figure below to answer the questions that follow.



a) Find the value of t .

b) Find the length and width of the figure.

c) Work out the perimeter.

24. Jinja and Kampala are 90 kilometres apart. A motorist left Jinja for Kampala reaching it within 2 hours and returned within $2\frac{1}{2}$ hours.

a) Find the speed of the motorist from Jinja to Kampala.

b) Work out the average speed of the motorist for the whole journey.

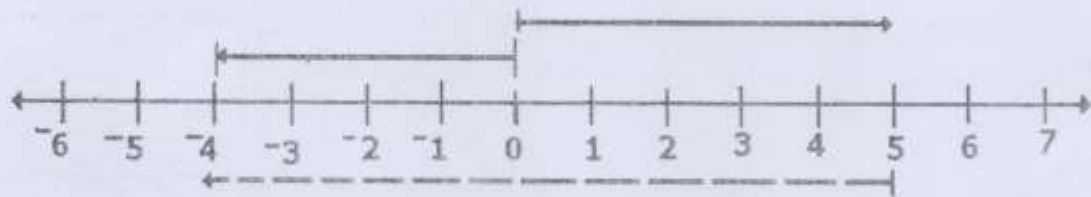
25. a) Using a ruler, a pencil and a pair of compasses only, construct triangle M where angle $TMN = 60^\circ$, angle $MNT = 45^\circ$ and $MN = 8$ cm

b) Measure:

(i) Angle MTN

(ii) Line TM

26. a) Write the integers represented by the arrows on the number line below.



- b) Write the mathematical statement that has been represented on the number line by the arrows.

27. Olanya had sh.55,000 and he bought the following items in the table below:

ITEM	QUANTITY	UNIT COST	TOTAL
Knickers in dozen	$\frac{1}{2}$ dozen	Sh.12000	Sh.....
Skirts	2 skirts	Sh.....	Sh.16,000
Stockings in dozendozen	Sh.1500	Sh.4,500
Blouses	2 blouses	Sh.6250	Sh.....

a) Complete the table above correctly.

b) If he was given a discount of 10%, how much money did he pay for the items?

28. Mr. Web spends 25% of his salary on fees, 30% on food, 35% on medical care and saves the rest. Using a radius of 3.5cm, draw an accurate pie chart to show the above information.

29. Jane used $\frac{1}{3}$ of her salary on food, $\frac{2}{5}$ on clothing and saved the rest of her salary.
a) What fraction of her salary did she save? (3mks)

b) If she saved sh.240000, find her monthly salary.

30. The exchange rate of one United States Dollar to Uganda shillings is US \$ 1 to Ug. Sh. 3800 and the exchange rate of one Kenya shilling to Uganda shillings is Ksh.1 to Ug.sh. 35.

a) If Mr. Azania was given Ksh.19000, how many United States dollars did he have?

b) How much money in Uganda shillings do I have if I am given US \$ 1500?

31. Bunjako had a sum of money which he gave out to his daughters Irene, Sylvia and Joan in the ratio of 4: 5: 6 respectively. If Irene got sh. 80,000 less than Joan, find the amount of money he gave out to his daughters.
- a) How much was each given?

b) What percentage of the money did Joan get?

32. The table below represents the weight of girls in P.7 at St. Patrick Primary School. Study it carefully and answer the questions that follow.

Weight in kg	No. of girls	Tallies	Total
27	10	_____	_____
30	_____	_____	240
_____	6	III I	120
15	_____	_____	180
35	4	_____	_____
_____	10	III III	400

a) Complete the table above.

b) Find the modal weight.

c) Calculate the average weight.