

MOTHELCARE PREPARATORY SCHOOLS
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: $714 \div 7$

Answer			Mark		

2. Write "One hundred thousand, one" in numerals.

3. If $P = \{1, 2, 3, 4, 5\}$ and $Q = \{a, b, c, d, e\}$. Find $n(P \cap Q)$

4. Write XLIV in Hindu Arabic numerals.

5. A school bursar deposited a bundle of twenty thousand shilling notes to the bank numbered from AB855801 to AB855900. How much money did the bursar deposit?

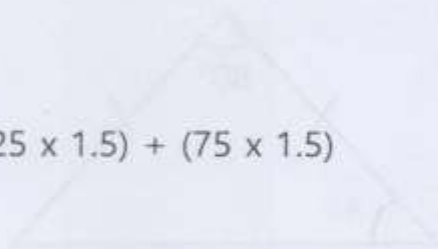
6. Find the next number in the sequence below:

1, 3, 6, 11, 18, _____

7. Okwaja is standing in the tenth position from the either sides of the line of teachers. How many teachers are in the line altogether?

8. Express 10011_{two} as a decimal base.

9. Use distributive property only to work out $(25 \times 1.5) + (75 \times 1.5)$

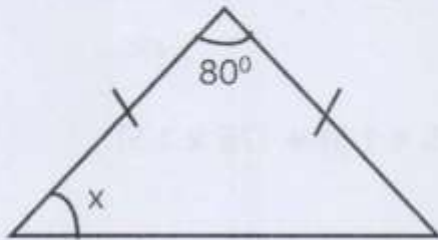


10. Write 0.000438 in standard form.

11. The ratio of boys to girls is 2:3. When increased by p , it becomes 14:15. Find the value of p .

12. Mr. Esau deposited sh. 240,000 in Stanbic bank at the interest rate of 15% per year for 9 months. Find his simple interest.

13. Find the value of x in the figure below.



14. Simplify: $-4 - -11$

15. A man's stride is 30cm. How many strides does he have to make to cover a distance of 150 metres?

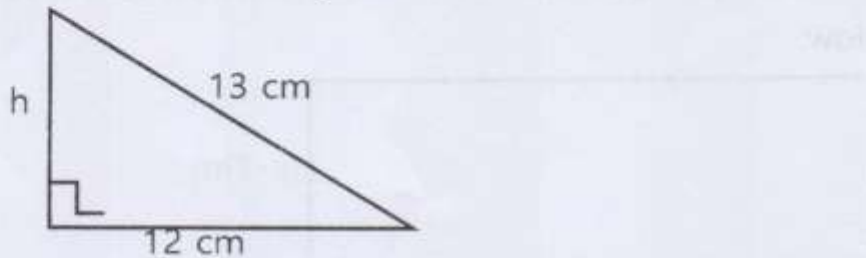
16. Find the square root of $6\frac{1}{4}$.

17. Evaluate $a^2 - b$ if $a = -3$ and $b = 2$.



18. In a class of 32 boys, the ratio of boys to girls is 2:3. Find the number of girls in the class.

19. Find the area of the figure below.

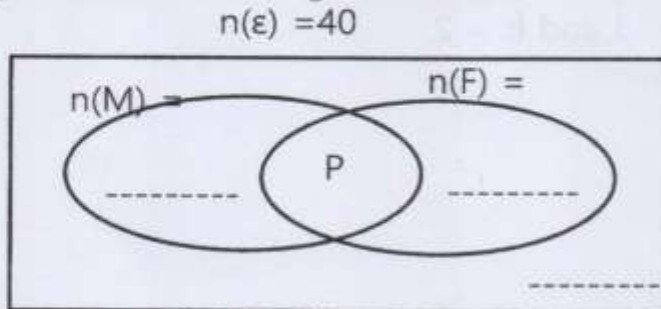


20. Solve: $2^{2x} = 64$

SECTIONS B: 60 MARKS

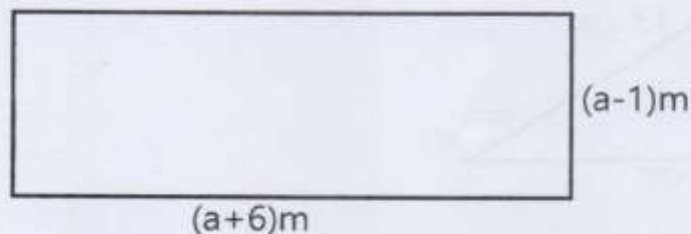
21. In a class of 40 candidates, all like chicken (C), 20 like meat (M) and chicken, 25 like fish (F) and chicken, p like all the three types of food while 5 candidates like chicken only.

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



b) How many candidates like all the three types of food? (2marks)

22. The figure below is a rectangle whose perimeter is 46 m. Use it to answer the questions that follow.



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

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

23. Mary went to the market and bought the following items.

- 2 kg of meat at sh. 8,000 per kg
- $1\frac{1}{4}$ kg of sugar at sh. 6,000 each kg
- 500g of maize flour at sh. 3,000 per kg
- 12 tomatoes at sh. 1,000 for every 3 tomatoes

a) How much money did she spend altogether? (5marks)

b) If she was given a change of sh. 21,000, how much money did she have at first? (1mark)

24. The sum of three consecutive even numbers is 66. If the last number is r ,

a) Find the numbers. (3marks)

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

b) Work out the range of the numbers. (1mark)

25. The table below shows marks scored by some pupils.

Marks	80	k	70	90
No. of pupils	2	4	3	1

a) How many pupils did the test? (2marks)

b) Find the value of k if the mean mark is 66. (3marks)

26. The table below shows the arrival and the departure time of the bus from Kampala to Tororo. Use it to answer the questions that follow.

Town	Arrival	Departure
Kampala		7: 00 am
Jinja	8: 45 am	9: 00 am
Iganga	10: 00 am	10: 20 am
Bugiri	11: 00 am	11: 15 am
Tororo	12: 00 noon	

a) How long did the bus take to travel from Iganga to Tororo? (2marks)

b) For how long did the bus stay in Jinja? (1mark)

27. When marking a test of 20 questions, a teacher awards 5 marks for every correct answer but deducts 2 marks for every wrong answer. If a candidate got 72 marks, how many questions did he fail? (4mks)

(4mks)

28. (a) Using a ruler, a pencil and a pair of compasses construct a square PQRS of side length 7cm. (3mks)

- b. Measure angle PQS
-

29. (a) Katongole is four times as old as his son. After six years, the difference in their ages will be 30 years. How old is Katongole now? (4mks)

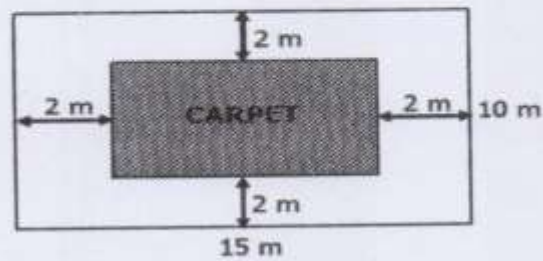
b. Solve: $4n - 3 = n$ (2mks)

30. At Mapengo's poultry farm, layers lay $(8 \times 10^2) + (7 \times 10^3) + (0 \times 10^0)$ eggs per day.

(a). If Mapengo collects eggs in 3 days, how many eggs did he collect? (3mks)

(b). If he packs the eggs in trays and each tray cost sh. 10,000, how much money did he get from the eggs collected in 3 days? (3mks)

31. The figure below represents the sitting room of 15 m by 10 m with a carpet placed in the middle. Use it to find the area of the space that is not covered by the carpet. (5marks)



32. Given that $y = x - 2$. Complete the table below. (5marks)

x	-2	_____	0	_____	2
y	_____	-3	_____	-1	_____

END