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

Set 3

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.

SECTION A (40 marks)

1. Work out:

$$\begin{array}{r} 8\ 7 \\ -\ 3\ 5 \\ \hline \end{array}$$

2. Given that set A = {a , e , i , o , u} and set B= {a , b , c ,d , e}. Find n(B- A)

3. Find the sum of the next two numbers in the sequence.

    2 , 3 , 5 , 7 , ____ , _____

4. Write the single number from $(9 \times 10^1) + (4 \times 10^3) + (7 \times 10^{-1})$
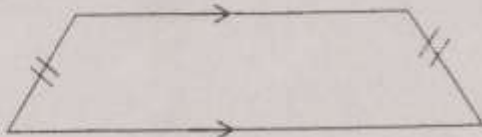
5. Simplify: $^-3 - {^-7}$

6. Work out: $\frac{1}{2} + \frac{1}{5}$

7. Set P has 32 subsets. Find n(P)

8. The mean of 13 , 8 , 7 and Y is 10. Find the value of Y.

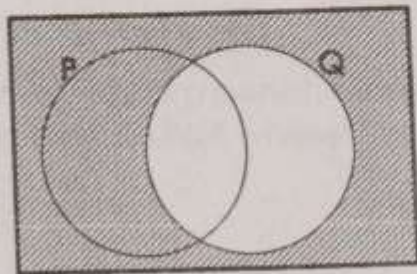9. How many lines of folding symmetry are on the shape below.

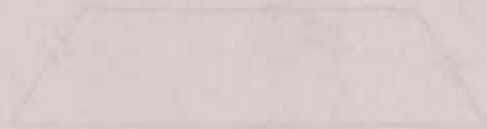10. A morning lesson that started at 10:45 am took 1 ½ hours. At what time did the lesson end?

11. The area of a square is 64m. Find the length of each side of the square.

12. Martin was born in the year MCMLXXIX. Express his year of birth as a Hindu Arabic numeral.
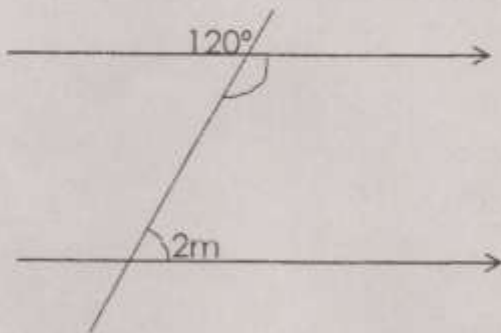
13. Describe the shaded region.

14. Multiply: $101_{two} \times 11_{two}$
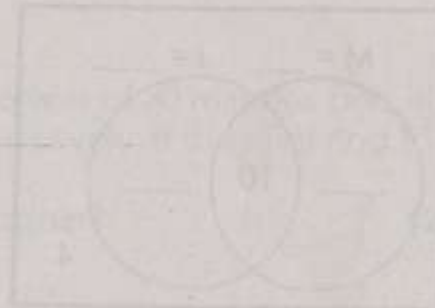
15. Find the square of $1\frac{7}{9}$.

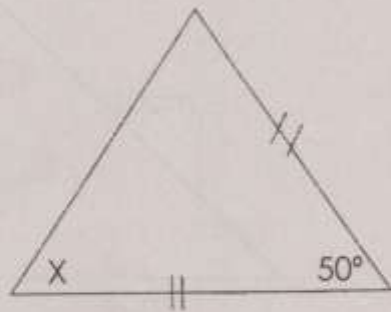16. Study the figure below carefully.

Find the value of M.

17. The school library has 180 textbooks. 20% of the books are science books. Find the number of science books in the library.

18. Work out: 0.09 − 0.3 + 2.01

19. A school bursar withdrew five thousand shilling notes numbered from AP004871 to AP004970. How many notes did he withdraw?
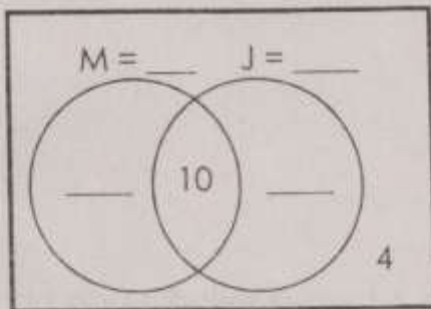
20. In the figure below, find the value of M.

SECTION B

21. Out of the tourists who visited Uganda, 23 visited Mbale (M), n visited Jinja (J) only, 10 visited both places and 4 did not visit any of the two places.
    a) Represent the above information on the Venn diagram below.   **(2marks)**

b) If 40 tourists visited only one town, find the value of n.   **(2marks)**
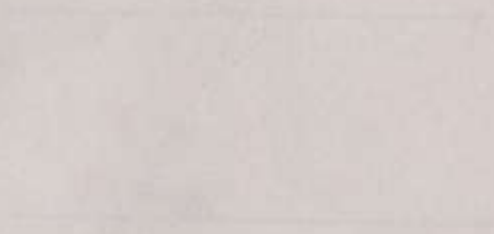
c) How many tourists visited Uganda?   **(2marks)**

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22. Given the numeral 3607.85.
    a) Find the value of 5 in the numeral. (2marks)

    b) Find the product of the place value of 6 and the value of 8. (2marks)

23. In Boko Junior School, two bells ring at intervals of 30 minutes and 40 minutes for lower primary and upper primary respectively. If they first ring together at 8:00 am,
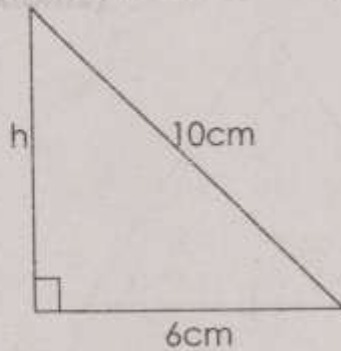   a) After how long do they ring together again? (2marks)

    b) At what time do they ring together again? (3marks)

24. a) Find the height of the triangle below. (3marks)

b) Work out the area of the triangle above. (2marks)

25. Aber, Brenda and Charles shared a certain number of books in the ratio of 2:3:5 respectively.
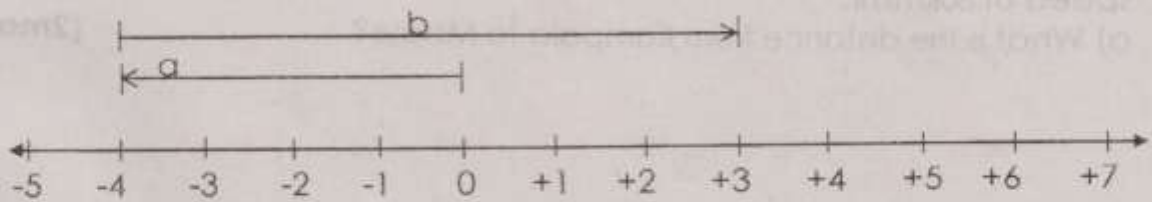
a) If Brenda got 15 books, How many books did they share altogether?
  (3marks)

b) How many more books did Charles get than Aber? (2marks)

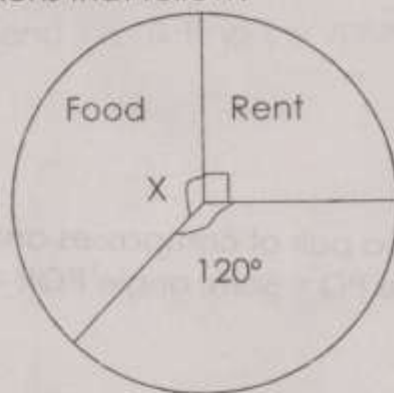26. Study the number line below and answer the following questions;

a) What integer has been represented by;   **(1 mark each)**

i) a = _____   ii) b = _____   iii) c _____

b) Write the mathematical statement shown on the number line. **(1mark)**

27. The pie-chart below shows how a man spent his salary of sh. 72,000. Use it to answer the questions that follow.
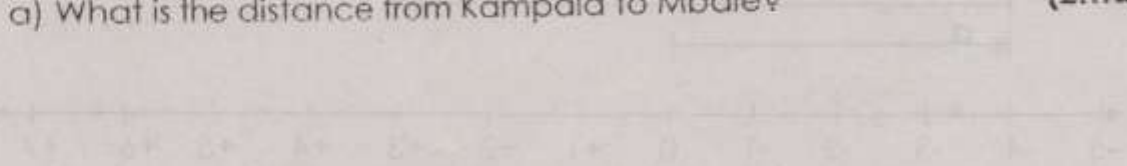

a) Find the value X.   **(2marks)**

b) How much more did he spend on other items than on rent? **(2marks)** •

c) What fraction does he spend on food?   **(1mark)**

_____

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28. A bus moving from Kampala to Mbale took 3 hours to cover the journey at a speed of 80km/hr.

a) What is the distance from Kampala to Mbale?　　　　　　　　　　(2marks)

b) If it returned at a speed of 120km/hr through the same route, Find its average speed for the whole journey.　　　　　　　　　　(3marks)

29. a) Using a ruler, a sharp pencil, a pair of compasses and a ruler only, construct a triangle PQR where PQ = 6cm, angle PQR = 60° and angle QPR = 45°.　　　　　　　　　　(5marks)

b) Measure PR　　　　　　　　　　(1mark)

30. Opoka went to Nakumat supermarket and bought the following items as shown on the table below.

a) Complete the table. **(4 marks)**

Item	Quantity	Unit cost	Amount
Rice	_____ kg	Sh. 3300	Sh. 9900
Cooking oil	2 litres	Sh. 5000	Sh. _____
Wheat flour	$\frac{1}{2}$ kg	Sh. _____	Sh. 2400
Total expenditure			Sh. _____

b) If Opoka went with Sh. 25000 for shopping. How much was his change.

(1 mark)

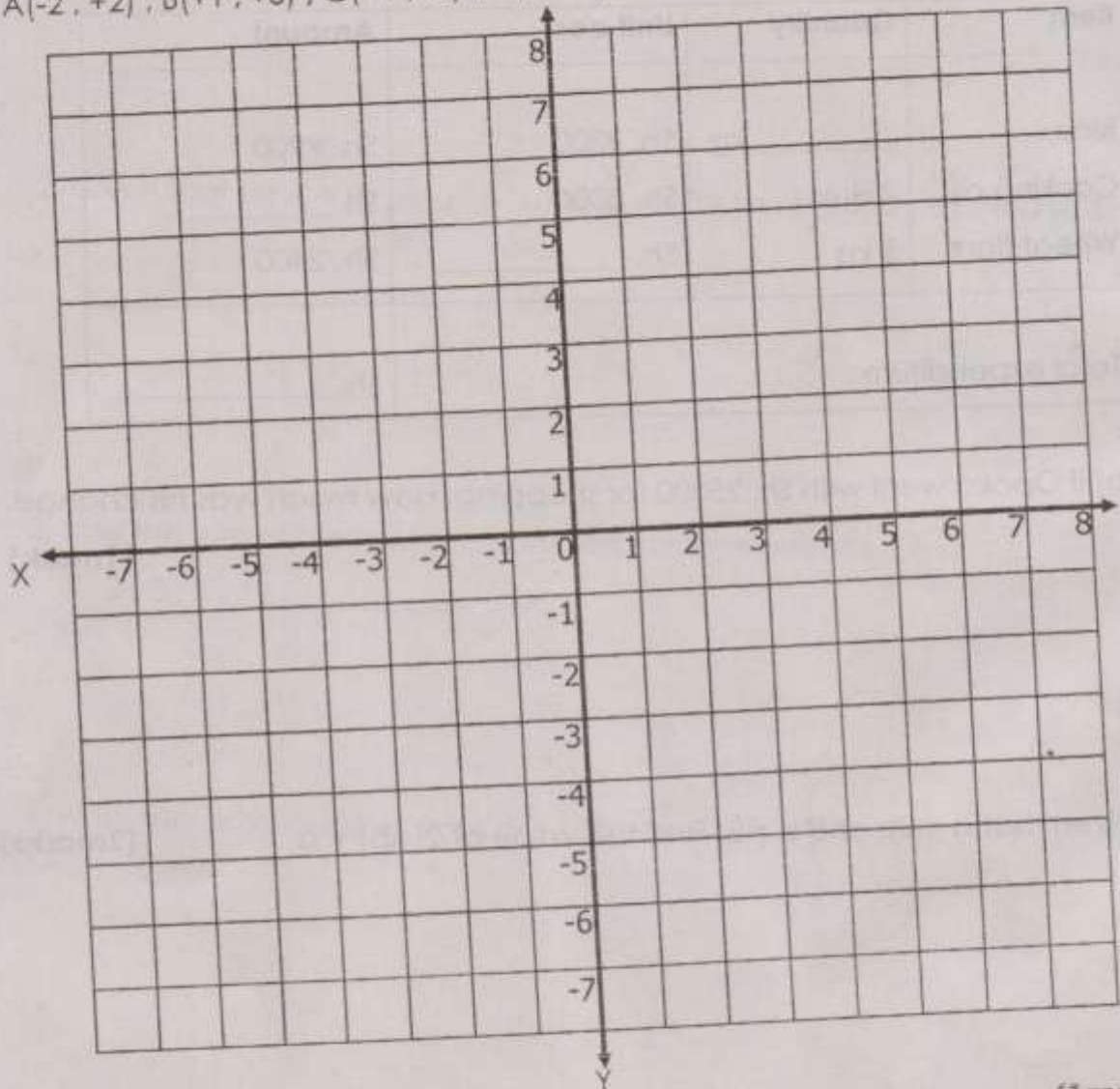31. Given that a = 2b and b = 3, Find the value of 2(ab) + a **(2marks)**

b) Solve: 3 (n + 2) – (2n – 4) = 2 **(2marks)**

32. a) Plot the following points on the grid below.   **(4marks)**

A(-2 , +2) , B(+1 , +5) , C(+1 , -5) , D(-2 , -3)

b) Join A to B, B to C, C to D and D to A.   (1mark)

c) Find the area of the figure formed.   (1mark)

END

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