AGGREGATE: .....

TAIBAH JUNIOR SCHOOL

PERCENTAGE: .....

PRIMARY SEVEN 2022

MAJESTIC SET 2 (TWO)

TERM THREE EXAMINATIONS

MATHEMATICS

TIME ALLOWED: 2 HOURS AND 30 MINUTES

Index number:	**RANDOM NUMBER**						**PERSONAL NO.**		

Candidate's name: .....

Candidate's signature: .....

Stream: ..... District: .....

Read the following instructions carefully:

1. This paper is made up of **two** sections **A** and **B**. **Section A** has **20 questions** (40 marks) and **section B** has **12 questions** (60 marks)

2. Answer **ALL** questions in this booklet. All working for sections **A** and **B must** be written in the spaces provided with a **very legible** and **neat** handwriting.

3. Use a **pen** with **blue ink** for writings and use a **pencil** for underlining, drawing and shading diagrams, tables and graphs.

4. Avoid **unnecessary** dirt, crosses and **changes of work** in your paper.

5. **No calculators** are allowed in the examination room.

SECTION		**SCORE**
A		
B		
TOTAL		

TEACHER'S COMMENT TO THE PUPIL:

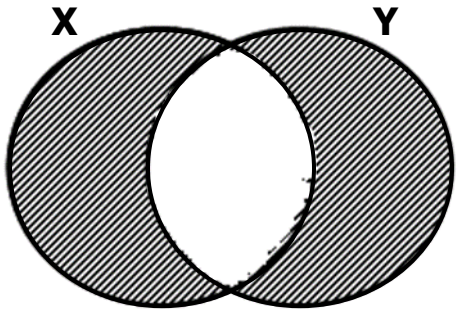
SECTION A (40 MARKS)

1. Subtract:
$$\begin{array}{r} 4\,0\,3 \\ -\,1\,0\,2 \\ \hline \\ \hline \end{array}$$

2. If $a = -4$ and $b = 3$, evaluate $\frac{ab}{2}$.

3. Change ¼ into a decimal fraction.

4. Describe the shaded part on the Venn diagram.



.....

5. Two news reporters Shima and Providence report at a radio station every after 6 days and 8 days respectively. After how many days do they report together if they had reported together for their first time?

6. Write "four hundred four thousand sixty" in figures.

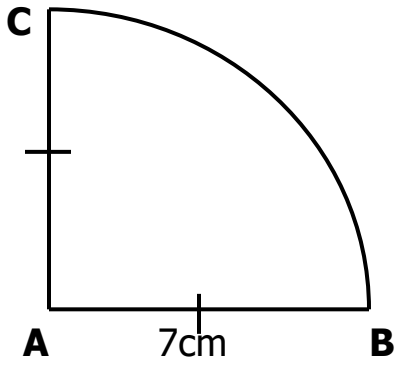
7. The average age of 5 boys is 12 years. Two of the boys, one *2 years older* than the other, leave the group. If the average age of the remaining 3 boys is 14 years, how old is the youngest of the two boys who left the group?

8. A freezer was at a temperature of -10^0C in the morning. The temperature *rose* by 6^0C in the afternoon, what is the new temperature?

9. A baby slept at 11:25 am and woke up at 1:05 pm. For how many *hours* did the baby sleep?

10. The *interior angle sum* of a regular polygon is $1{,}260^0$. What name is given to this polygon?

11. Work out the length of the arc *CB* of the quadrant below.



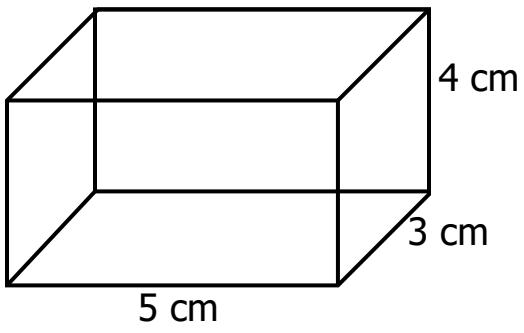
(Take π as $\frac{22}{7}$)

12. A school normally hires 1 man to slash the school field in 15 days. How many *more men* working at the same rate does the school need to hire to do the same work in only 3 days?

13. Two consecutive *counting* numbers add up to 55. If the bigger number is r, find the smaller number.

14. A bag contains 24 pens. 10 pens are blue, 6 pens are red and the rest are black pens. Find the probability of picking a black pen at random from the bag.

15. Calculate the sum of the *lengths of the edges* that make up the cuboid given.

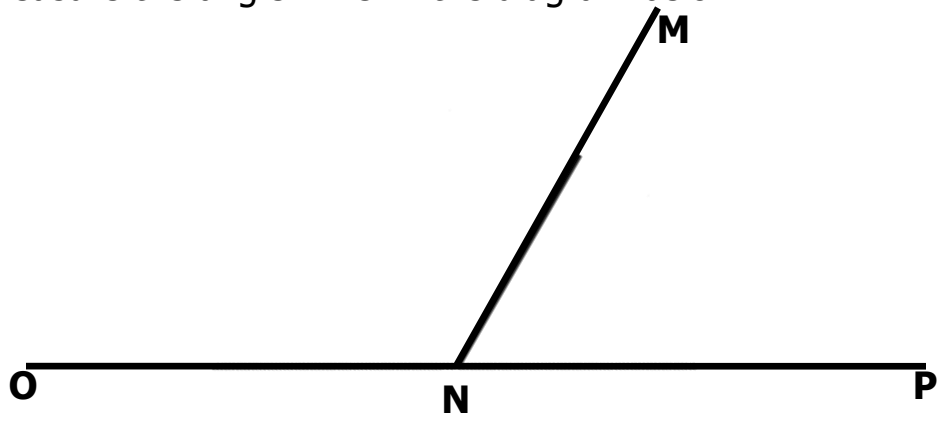


16. Given that 400 US Dollars cost Ug.sh. 1,480,000, how much does a *single dollar* cost?

17. Convert the speed 10 metres per second into *kilometres per hour*.

18. Maize flour of a mass 25 Kg was packed into a sack of a mass 500 grams. What is the total weight of the flour and the sack in *kilograms* (Kg)?

19. Measure the angle MNO in the diagram below.



Angle MNO = ...

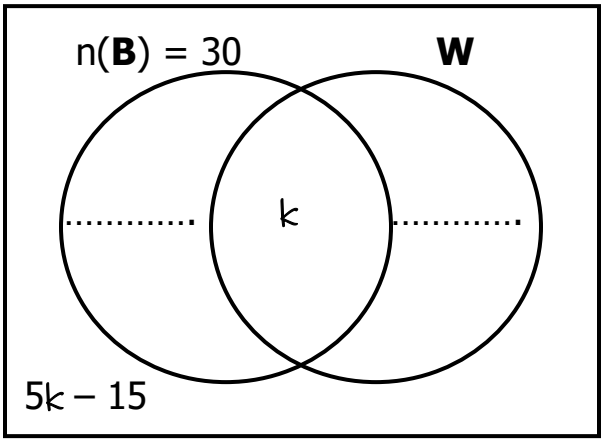
20. Solve for h: $3 - 2h > 5$

SECTION B (60 MARKS)

21. In a certain class, 30 pupils joined Ballet club (**B**), 11 pupils joined writers' club (**W**) only, k pupils joined both clubs while $(5k - 15)$ pupils joined neither of the two clubs but others. If those who joined other clubs except the two clubs are *twice* those who joined both clubs;

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

(02 marks)



(b) What is the value of k?

(02 marks)

(c) Find the probability of choosing a child at random who joined writers' club.

(02 marks)

22. (a) A wedding party attended by DXCVI people had 299 family members and the rest were not family members.
Work out the number of non-family members that attended the party in *Roman numerals*.
(03 marks)

(b) How many groups of 100s are in the value of 8 in the number 786,032?
(02 marks)

23. Doctor Clarissa earns sh. 3,000,000 per month. She spends $\frac{1}{6}$ of it on medical facilities, $\frac{3}{5}$ of the *remainder* for home needs and the rest is left on account as savings.
(a) What amount does she spend on home needs? *(03 marks)*

(b) How much does she keep as savings? *(02 marks)*

24. Anderson bought the following items from a shop.

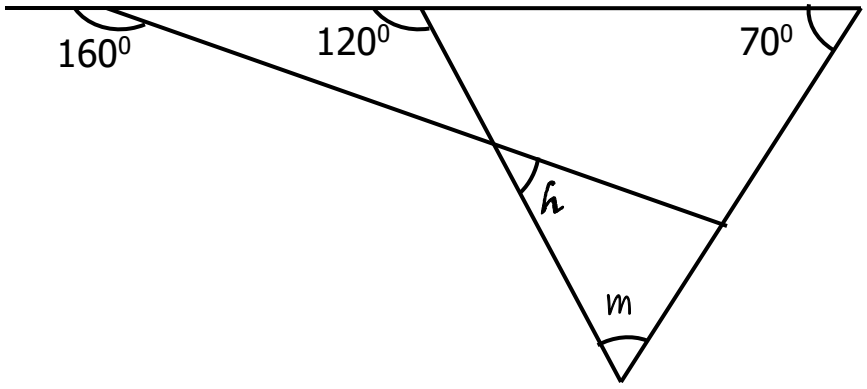
- 2 Kilograms of sugar at sh. 1,700 for every half Kilogram.
- 750 ml of cooking oil at sh. 8,000 per litre.
- 4 heaps of tomatoes at sh. 1,000 for every heap.

(a) Find the cost of *1 Kg of sugar and 2 heaps of tomatoes* from the same shop.

(02 marks)

(b) Calculate his *total pay* for sugar and cooking oil. *(03 marks)*

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



(a) Find the value of m in degrees. *(02 marks)*

(b) Work out the value of h in degrees. *(02 marks)*

26. Below is one of the rectangular sheets of paper teacher Charles used to teach about volume of a cylinder in Primary Seven Grouse.

Lukadi, one of the pupils in the class, folded it end to end to form an open-ended cylinder whose height was 20 cm;

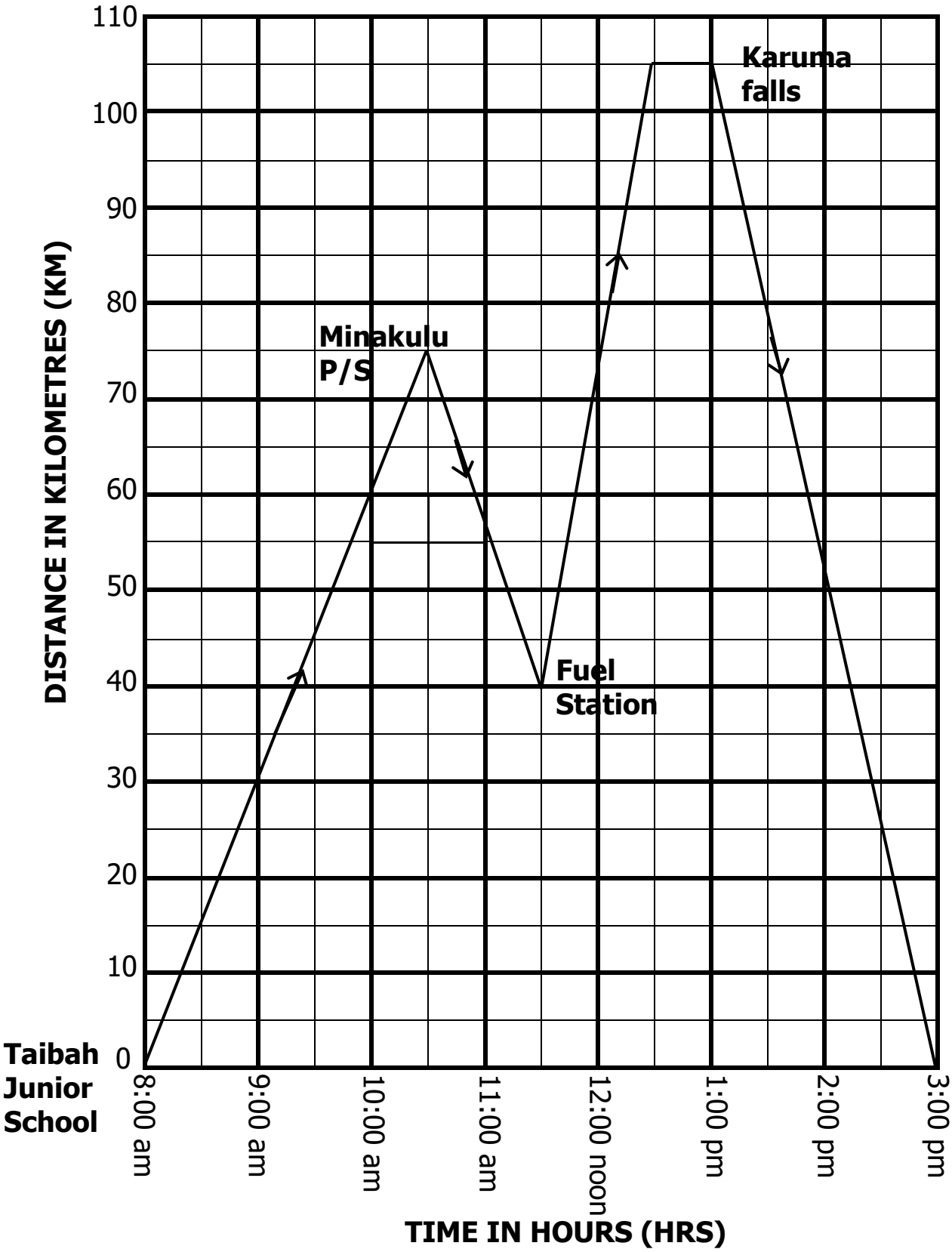
(a) Find the *radius* of the cylinder formed in cm. (Take π as $\frac{22}{7}$)

(02 marks)

(b) If the whole class makes *25 cylinders* of the same size as a practical activity, calculate the total volume of their cylinders. *(03 marks)*

27. Solve for P: $6(P - 4) - (P + 3) = 3P - 13$ *(04 marks)*

28. The travel graph below shows how Taibah Junior School candidates travelled by school bus from school for 2 ½ hours to Minakulu P/S, returned to Masindi Fuel Station and then continued to Karuma falls for a short trip and returned after wards. Study it carefully and use it to answer the questions that follow.



(a) Find the total distance the bus covered before returning from the tour.
(03 marks)

(b) Find the bus' average speed for the whole journey. *(03 marks)*

29. Nimra, Elaine and Musa shared a certain amount of money in the ratio 2:7:8 respectively. If Musa was given sh. 12,000;
(02 marks)
(a) How much money was shared altogether?

(b) Find how much more money Elaine got than Nimra. *(03 marks)*

30. The head teacher of Excellence International School gave out some books to the 4 streams of Primary Four Class as shown below.

STREAM	**NUMBER OF BOOKS**
Joy	16 books
Peace	36 books
Hope	16 books
Love	28 books

Using a radius of 5 cm, draw an accurate pie-chart showing the above information.

(05 marks)

31. A small square garden measures 15 metres by 15 metres. Poles were fixed 3 metres apart from each other around it and three strands of barbed wire are attached on the poles.

(a) Find the number of poles that were used. *(02 marks)*

(b) Calculate of the total length of the three strands of barbed wire.

(02 marks)

32. Using a pair of compasses, a ruler and a sharp pencil only,

(a) construct a scalene triangle CUP, where side CU is 6 cm, angle CUP is 60^0 and angle UCP = 45^0. *(04 marks)*

(b) Drop a perpendicular line from point P to meet side CU at a point T. *(01 mark)*

(c) Measure the height PT and use it to calculate the area of the triangle CUP in cm^2. *(01 mark)*

THE END